

GenCore version 5.1.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:33:45 ; Search time 742.26 Seconds  
(without alignments)  
3947.771 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGERSDRT.....LFAKGEVQWALSDHQHGRN 495

Scoring table: OLIGO \*

Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Word size: 1

Total number of hits satisfying chosen parameters: 8776198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame+pn.model -DEV=xlh  
-O=/cgn2.1/USPTO.spool/US09776865/runat 08072005 175611 23683/app query.fasta 1.1358  
-DB=N Geneseq 16Dec04 -SUFFIX=oligo.rng -MINMATCH=0.1 -LOOPL=0  
-LOOPEXT=0 -UNITS=bits -SFWT=1 -END=-1 -MATRIX=oligo -TRANS=human40.cdi  
-LIST=1000 -DOCALIGN=200 -THR SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL  
-OUTFWT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865 @CGN 1 1 1004 @runat 08072005 175611 23683 -NCPU=6 -ICPU=3  
-NO MMAP -LARGESQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : N Geneseq 16Dec04:\*

1: Geneseqn1980s: \*  
2: Geneseqn1990s: \*  
3: Geneseqn2000s: \*  
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8: Geneseqn2003as: \*  
9: Geneseqn2003bs: \*  
10: Geneseqn2003cs: \*  
11: Geneseqn2003ds: \*  
12: Geneseqn2004as: \*  
13: Geneseqn2004bs: \*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	495	100.0	2844	3	Az50876 Sheep GBS
2	495	100.0	2844	4	Aad10326 Sheep gro
3	61	12.3	375	5	Aah52158 Human AFP
4	61	12.3	1485	3	Aaz50880 Human/She
5	61	12.3	1488	4	Aai58115 Human pol

6	61	12.3	1651	6	ABL90384	Abi90384 Human pol
7	61	12.3	1872	6	ABO54422	Abq54422 Human ova
8	61	12.3	1975	4	Aah99626	Aah99626 Human pro
9	61	12.3	1975	4	Aah99626	Aah99626 Human pro
10	61	12.3	2511	12	ADQ84158	Adq84158 Human tum
11	61	12.3	2512	4	AAF55900	Aaf55900 Human AST
12	61	12.3	2602	3	AAZ50875	Aaz50875 Partial h
13	61	12.3	2626	11	ACN91332	Acn91332 Breast ca
14	61	12.3	2670	4	Aah79234	Aah79234 Human sod
15	61	12.3	2712	4	AK94876	Aak94876 Human ful
16	61	12.3	2712	12	ADL32035	Adl32035 Full leng
17	61	12.3	2930	3	Aaz50879	Aaz50879 Full leng
18	61	12.3	2930	4	AAD10325	Aad10325 Human gro
19	61	12.3	3329	12	ADJ75057	Adj75057 Marker ge
20	61	12.3	3329	13	ADRI4586	Adri4586 Human NP-
21	61	12.3	3329	13	ADP25216	Adp25216 PRO polyp
22	61	12.3	3362	5	ADL45207	Adl45207 Human ova
23	48	9.7	1229	11	ADI31334	Adi31334 Human cDN
24	33	6.7	217	10	ACA56004	Aca56004 Human sig
25	33	6.7	217	12	ADI55800	Adi55800 Human pol
26	32	6.5	853	4	AAK93901	Aak93901 Human cDN
27	32	6.5	853	12	ADL30328	Adl30328 3' end of
28	30	6.1	929	4	AAI59901	Aai59901 Human pol
29	30	6.1	1485	3	AAZ50881	Aaz50881 Human/She
30	29	5.9	199	6	ABL37731	Abi37731 Human col
31	29	5.9	494	5	ADL38939	Adl38939 Human ova
32	29	5.9	498	5	ADI67304	Adi67304 Human ova
33	29	5.9	498	5	ADI73702	Adi73702 Human ova
34	29	5.9	516	11	ACN87943	Acn87943 Breast ca
35	29	5.9	798	5	AAZ566219	Aaz566219 DNA encod
36	29	5.9	838	4	AAK92364	Aak92364 Human cDN
37	29	5.9	838	12	ADL28791	Adl28791 5' end of
38	29	5.9	1066	5	AAZ577186	Aaz577186 DNA encod
39	29	5.9	1066	8	ACD05897	Acdo5897 Novel hum
40	18	3.6	264	4	AAI22435	Aai22435 Human bre
41	18	3.6	349	4	AAI13566	Aai13566 Human bre
42	18	3.6	573	6	ABQ97960	Abq97960 Mouse ES
43	18	3.6	756	11	ACN83647	Acn83647 Breast ca
44	12	2.4	375	12	ACH81066	Ach81066 Human gen
45	12	2.4	512	12	ACH67361	Ach67361 Human gen
46	12	2.4	1939	4	ABL03769	Abi03769 Drosophil
47	12	2.4	2269	10	ADL24752	Adl24752 Intestina
48	12	2.4	2281	2	AAV57909	Aav57909 Human hae
49	12	2.4	2281	6	ABN96956	Abn96956 Gene #345
50	12	2.4	2281	10	ADF90827	Adf90827 Human hep
51	12	2.4	4899	4	ABL03768	Abi03768 Drosophil
52	12	2.4	235033	2	AAV57926	Aav57926 Hereditar
53	12	2.4	237326	2	AAV57903	Aav57903 Hereditar
54	11	2.2	2528	8	ABX13555	Abx13555 Murine DN
55	11	2.2	2528	10	ADC15493	Adc15493 Mouse DNP
56	11	2.2	3422	4	AAK52406	Aak52406 Human pol
57	11	2.2	3946	8	ABX13553	Abx13553 Human DNP
58	11	2.2	3946	10	ADC15489	Adc15489 Human DNP
59	11	2.2	3982	8	ABX13554	Abx13554 Rat DNPI
60	11	2.2	3982	9	ACF25330	Acf25330 Rat Na-de
61	11	2.2	3982	10	ADC15491	Adc15491 Rat DNPI
62	10	2.0	875	13	ADS51128	Ads51128 Bacterial
63	10	2.0	1161	12	ADP28533	Adp28533 Human sec
64	10	2.0	1425	13	ADS51130	Ads51130 Bacterial
65	10	2.0	1575	4	ABL26651	Abi26651 Drosophil
66	10	2.0	1641	4	ABL18113	Abi18113 Drosophil
67	10	2.0	1700	10	ADB59088	Adb59088 Toxicity-
68	10	2.0	1700	10	ADB53647	Adb53647 Primary r
69	10	2.0	1700	10	ABT42420	Abt42420 Toxicity
70	10	2.0	1700	12	ADP72853	Adp72853 Renal tox
71	10	2.0	1786	4	ABL07417	Abi07417 Drosophil
72	10	2.0	3810	4	ABL26650	Abi26650 Drosophil
73	10	2.0	4774	4	ABL07416	Abi07416 Drosophil
74	10	2.0	6872	4	ABL18112	Abi18112 Drosophil
75	10	2.0	7125	4	ABL26652	Abi26652 Drosophil
76	9	1.8	33	4	AAH79237	Aah79237 Human Na
77	9	1.8	234	3	AAH87459	Aah87459 Rat hepat
78	9	1.8	360	6	ABQ85648	Abq85648 Arabidops

79	9	1.8	511	6	ABQ47112	Abq47112 Oligonuc1	c 152	8	1.6	594	6	ABQ39269	Abq39269 Oligonuc1
80	9	1.8	511	6	ABQ47113	Abq47113 Oligonuc1	153	8	1.6	594	6	ABQ39268	Abq39268 Oligonuc1
81	9	1.8	1188	6	AB213146	Ab213146 Arabidops	154	8	1.6	598	4	AAF44897	Aaf44897 Human bre
82	9	1.8	1478	3	AC34230	Aac34230 Arabidops	155	8	1.6	610	13	ADQ50597	Adq50597 Novel can
83	9	1.8	1701	4	AH23452	Aah23452 Human lim	156	8	1.6	633	6	ABQ47239	Abq47239 Oligonuc1
84	9	1.8	1938	4	AA561038	Aa561038 Human can	157	8	1.6	633	6	ABQ47238	Abq47238 Oligonuc1
85	9	1.8	1952	10	AAD62831	Aad62831 Human for	158	8	1.6	636	3	AAAC07097	Aac07097 Human sec
86	9	1.8	2031	4	ABL26653	Ab126653 Drosophil	159	8	1.6	650	3	AAZ80186	Aaz80186 Human col
87	9	1.8	2174	5	ABK52236	Abk52236 cDNA enco	160	8	1.6	689	3	AAAC07100	Aac07100 Human sec
88	9	1.8	2316	10	ADB59023	Adb59023 Toxicity-	161	8	1.6	705	8	ACA32325	Aca32325 Prokaryot
89	9	1.8	3317	4	ABL28771	Ab128771 Drosophil	162	8	1.6	705	11	ABD13245	Abd13245 Pseudomon
90	9	1.8	5397	5	AA566000	Aa566000 cDNA enco	163	8	1.6	706	6	ABQ32971	Abq32971 Oligonuc1
91	9	1.8	5634	10	ACD19433	Ac119433 cDNA enco	164	8	1.6	706	6	ABQ32970	Abq32970 Oligonuc1
92	9	1.8	7402	4	ABL28770	Ab128770 Drosophil	165	8	1.6	714	12	ACH87521	Ach87521 Human gen
93	9	1.8	7487	5	AA592457	Aa592457 cDNA enco	166	8	1.6	798	4	AAI97325	Aai97325 Human neu
94	9	1.8	14800	6	ABL66291	Ab166291 Lung canc	167	8	1.6	801	9	ADA30777	Ada30777 DNA enco
95	9	1.8	14800	12	ADP13447	Adp13447 Renal cel	168	8	1.6	828	6	ABQ31613	Abq31613 Oligonuc1
96	9	1.8	14835	6	AA594858	Aa594858 Human DNA	169	8	1.6	828	6	ABQ31612	Abq31612 Oligonuc1
97	9	1.8	42379	12	ADQ97660	Adq97660 Mouse can	170	8	1.6	874	6	ABQ33994	Abq33994 Oligonuc1
98	9	1.8	228139	11	ACN44002	Acn44002 Human gen	171	8	1.6	874	6	ABQ33994	Abq33994 Oligonuc1
99	9	1.8	247544	12	ADQ59419	Adq59419 Human can	172	8	1.6	874	6	ABQ33995	Abq33995 Oligonuc1
100	9	1.8	252907	13	ABD32694	Abd32694 Human can	173	8	1.6	874	6	ABQ33995	Abq33995 Oligonuc1
101	8	1.6	41	4	AH79239	Aah79239 Human Na	174	8	1.6	876	3	AAAC99057	Aac99057 Human pan
102	8	1.6	105	2	AA720739	Aat20739 Human gen	175	8	1.6	886	6	ABQ41038	Abq41038 Oligonuc1
103	8	1.6	117	3	AA700048	Aaa70048 Human ova	176	8	1.6	886	6	ABQ41039	Abq41039 Oligonuc1
104	8	1.6	117	6	ABN72942	Abn72942 Ovarian c	177	8	1.6	887	6	AAI67947	Aai67947 Human CCR
105	8	1.6	117	9	ADA08512	Ada08512 Human ova	178	8	1.6	951	13	ADT43990	Adt43990 Bacterial
106	8	1.6	117	10	ADF08855	Adf08855 cDNA enco	179	8	1.6	1057	12	ADJ42222	Adj42222 Plant CDN
107	8	1.6	117	10	ADG46142	Adg46142 Human ova	180	8	1.6	1062	4	AAH52620	Aah52620 S. epider
108	8	1.6	144	6	ABQ90618	Abq90618 M. capsul	181	8	1.6	1080	4	ACA20967	ACA20967 Prokaryot
109	8	1.6	168	13	ADSO4142	Ads04142 Staphyloc	182	8	1.6	1082	2	AAZ41967	Aaz41967 Human myo
110	8	1.6	302	10	ACA56377	Acas56377 Human sig	183	8	1.6	1083	11	ABD12929	Abd12929 Pseudomon
111	8	1.6	302	12	ADI56173	Adi56173 Human pol	184	8	1.6	1098	10	ACC61925	Acc61925 Gene sequ
112	8	1.6	307	4	AA523394	Aas23394 Human ova	185	8	1.6	1098	10	ADK63543	Adk63543 Disease t
113	8	1.6	307	5	AAH82559	Aah82559 Human ova	186	8	1.6	1098	13	ADS47018	Ads47018 Bacterial
114	8	1.6	321	13	ADR63777	Adr63777 Cotton cd	187	8	1.6	1103	12	ADO02848	Ado02848 Corn orth
115	8	1.6	336	8	ABX45212	Abx45212 Bovine ES	188	8	1.6	1104	9	ADA30713	Ada30713 DNA enco
116	8	1.6	345	5	AAF67089	Aaf67089 Novel hum	189	8	1.6	1188	9	ACC59401	Acc59401 Microbial
117	8	1.6	368	3	AAAC07101	Aac07101 Human sec	190	8	1.6	1206	9	ADA31549	Ada31549 DNA enco
118	8	1.6	383	10	ADD33833	Add33833 Mouse mit	191	8	1.6	1263	11	ABD15054	Abd15054 Pseudomon
119	8	1.6	386	6	ABV88859	Abv88859 Human col	192	8	1.6	1263	11	ABD14863	Abd14863 Pseudomon
120	8	1.6	387	6	ABV88917	Abv88917 Human col	193	8	1.6	1270	6	ABN96523	Abn96523 Gene #302
121	8	1.6	390	6	AAK45013	Abk45013 cDNA enco	194	8	1.6	1279	5	ADL45820	Adl45820 Human ova
122	8	1.6	404	5	AAF66458	Aaf66458 Novel hum	195	8	1.6	1367	4	AAI61282	Aai61282 Human pol
123	8	1.6	404	10	ACD97946	Ac197946 Human col	196	8	1.6	1377	11	ABD15072	Abd15072 Pseudomon
124	8	1.6	425	3	AAAC07103	Aac07103 Human sec	197	8	1.6	1384	2	AAQ91199	Aaq91199 HMPG 46 k
125	8	1.6	429	8	ABX37053	Abx37053 Bovine ES	198	8	1.6	1388	4	ABL02015	Ab102015 Drosophil
126	8	1.6	438	9	ACH19732	Ach19732 Human edu	199	8	1.6	1419	13	ADT42061	Adt42061 Bacterial
127	8	1.6	438	8	ABX44619	Abx44619 Bovine ES	200	8	1.6	1431	4	AA526516	Aas26516 Human CDN
128	8	1.6	456	3	AAAC07104	Aac07104 Human sec	201	8	1.6	1431	8	ABX73857	Abx73857 Human nov
129	8	1.6	487	6	ABK62339	Abk62339 Rat sequ	202	8	1.6	1436	4	AA526093	Aas26093 Human CDN
130	8	1.6	487	10	ADB55558	Adb55558 Toxicity-	203	8	1.6	1436	8	ABX73434	Abx73434 Human nov
131	8	1.6	487	10	ADB50115	Adt40558 Toxicity	204	8	1.6	1440	13	ADT48613	Adt48613 Bacterial
132	8	1.6	487	10	ABT40558	Adt40558 Toxicity	205	8	1.6	1461	3	AAAC0119	Aac0119 Arabidops
133	8	1.6	487	12	ADP71655	Adp71655 Renal tox	206	8	1.6	1536	11	ABD13048	Abd13048 Pseudomon
134	8	1.6	499	10	ADF61849	Adf61849 Human ald	207	8	1.6	1574	4	ABL17667	Ab117667 Drosophil
135	8	1.6	511	6	ABN94941	Abn94941 Gene #143	208	8	1.6	1623	5	AAH52103	Aah52103 Human AFP
136	8	1.6	513	3	AAAC07106	Aac07106 Human sec	209	8	1.6	1685	12	ADR20077	Adr20077 Human imm
137	8	1.6	536	10	ADD01461	Add01461 Rat TCH17	210	8	1.6	1701	10	ADJ95071	Adj95071 Novel NOV
138	8	1.6	545	4	AAI18020	Aai18020 Probe #79	211	8	1.6	1716	4	AAI59496	Aai59496 Human pol
139	8	1.6	545	4	ABA62988	Abas62988 Human foe	212	8	1.6	1725	3	AAAS1870	Aaas1870 Human TAN
140	8	1.6	545	4	AAI43015	Aai43015 Probe #11	213	8	1.6	1761	11	ABD13100	Abd13100 Pseudomon
141	8	1.6	545	4	ABA30251	Abas30251 Probe #87	214	8	1.6	1767	11	ADD01393	Add01393 Human TCH
142	8	1.6	545	4	AAK37187	Aak37187 Human bon	215	8	1.6	1778	4	ABL14989	Ab114989 Drosophil
143	8	1.6	545	4	AAK11400	Aak11400 Human bra	216	8	1.6	1791	5	AAAS8905	Aas8905 DNA enco
144	8	1.6	545	4	ABS36858	Abas36858 Human liv	217	8	1.6	1791	5	AAAS79153	Aas79153 DNA enco
145	8	1.6	546	4	AAH09173	Aah09173 Human CDN	218	8	1.6	1803	10	ADD01411	Add01411 Mouse TCH
146	8	1.6	553	3	AAAC07099	Aac07099 Human sec	219	8	1.6	1811	6	ABK87049	Abk87049 Human tra
147	8	1.6	553	12	ADQ92266	Adq92266 Human aut	220	8	1.6	1811	10	ADG88328	Adg88328 Human tra
148	8	1.6	585	6	ABQ16892	Abq16892 Oligonuc1	221	8	1.6	1818	5	ADL63818	Adl63818 Human ova
149	8	1.6	585	6	ABQ16893	Abq16893 Oligonuc1	222	8	1.6	1822	10	ADD01422	Add01422 Mouse TCH
150	8	1.6	587	4	AAK37568	Aak37568 Human bon	223	8	1.6	1839	6	ABN66146	Abn66146 Streptoco
151	8	1.6	587	4	AAK11857	Aak11857 Human bra	224	8	1.6	1842	8	ACA50601	Aca50601 Prokaryot

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:42:45 ; Search time 6301.53 Seconds

(without alignments)

3806.273 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGEGSDRT.....LFAKGEVQNWALSDHQHGN 495

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Word size: 1

Total number of hits satisfying chosen parameters: 9408497

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 1000 summaries

Command line parameters:

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-DB=GenEmbl -QFMT=fastap -SUFFIX=oligo.rge -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0  
-UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi -LIST=1000  
-DOCALIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc  
-NORM-ext-HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865@cgn\_1\_1\_8225@runat\_08072005\_175612\_23689 -NCFU=6 -ICPU=3  
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPRLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

GenEmbl.\*

1: gb\_ba.\*  
2: gb\_htg.\*  
3: gb\_in.\*  
4: gb\_om.\*  
5: gb\_ov.\*  
6: gb\_pat.\*  
7: gb\_ph.\*  
8: gb\_pl.\*  
9: gb\_pr.\*  
10: gb\_ro.\*  
11: gb\_scs.\*  
12: gb\_sy.\*  
13: gb\_un.\*  
14: gb\_vi.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	495	100.0	2844	4	AF244578
2	495	100.0	2844	6	BD248126 GBS toxin
3	495	100.0	2844	6	AX207626
4	62	12.5	233392	2	AC150504 Bos tauri

5	61	12.3	375	6	AX118967
6	61	12.3	1485	6	BD248130
7	61	12.3	1587	9	AK025880
8	61	12.3	2512	6	AX138494
9	61	12.3	2512	6	HS387747
10	61	12.3	2602	6	BD248125
11	61	12.3	2712	6	CO783928
12	61	12.3	2712	6	BD127905
13	61	12.3	2712	9	AK075320
14	61	12.3	2930	6	BD248129
15	61	12.3	2930	6	AX207624
16	61	12.3	3292	9	AF244577
17	61	12.3	3292	9	BC020961
18	61	12.3	3329	6	CO776623
19	61	12.3	3362	6	CQ412026
20	48	9.7	1229	6	AR380115
21	43	8.7	113202	9	HSJ397H23
22	43	8.7	157749	2	AC025535
23	43	8.7	185712	2	AC150017
24	43	8.7	187017	2	AC150839
25	42	8.5	752	6	CQ720578
26	35	7.1	2006	9	AK026921
27	34	6.9	3121	5	AJ719840
28	33	6.7	217	6	AR270039
29	33	6.7	149597	2	AC034271
30	33	6.7	194653	2	AC150717
31	33	6.7	228433	10	AC097023
32	32	6.5	853	6	CQ782221
33	32	6.5	853	6	BD126930
34	32	6.5	3152	10	BC058785
35	30	6.1	1485	6	BD248131
36	29	5.9	199	6	AX341073
37	29	5.9	494	6	CQ405758
38	29	5.9	498	6	CQ392975
39	29	5.9	498	6	CQ399373
40	29	5.9	838	6	CQ780684
41	29	5.9	838	6	BD125393
42	29	5.9	144738	2	AC112668
43	27	5.5	137509	5	BX323884
44	27	5.5	228860	2	CR354610
45	25	5.1	56641	2	AL138833
46	25	5.1	187017	2	AC150839
47	25	5.1	188302	2	AC150022
48	18	3.6	251	11	BV198823
49	18	3.6	264	6	CQ429871
50	18	3.6	349	6	CQ420997
51	12	2.4	1874	10	BC018306
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54	12	2.4	2266	6	AR036570
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60	12	2.4	33444	2	AC014246
61	12	2.4	136646	9	AL138726
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64	12	2.4	167926	3	AC023685
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66	12	2.4	186062	10	AL590388
67	12	2.4	209876	2	AL627315
68	12	2.4	235033	6	BD084121
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70	12	2.4	240774	2	AC130391
71	12	2.4	246240	6	AR036572
72	12	2.4	246240	6	AR036573
73	12	2.4	246282	9	HSU91328
74	12	2.4	332029	3	AE003491
75	12	2.2	838	5	AX559247
76	11	2.2	1299	6	CQ725168
77					

AX118967	Sequence
BD248130	GBS toxin
AK025880	Homo sapi
AX138494	Sequence
AJ387747	Homo sapi
BD248125	GBS toxin
CO783928	Sequence
BD127905	Primer fo
AK075320	Homo sapi
BD248129	GBS toxin
AX207624	Sequence
AF244577	Homo sapi
BC020961	Homo sapi
CO776623	Sequence
CQ412026	Sequence
AR380115	Sequence
AL121972	Human DNA
AC025535	Homo sapi
AC150017	Papio anu
AC150839	Papio anu
CQ720578	Sequence
AK026921	Homo sapi
AJ719840	Gallus ga
AR270039	Sequence
AC034271	Homo sapi
AC150717	Callithrl
AC097023	Rattus no
CQ782221	Sequence
BD126930	Primer fo
BC058785	Mus muscu
BD248131	GBS toxin
AX341073	Sequence
CQ405758	Sequence
CQ392975	Sequence
CQ399373	Sequence
CQ780684	Sequence
BD125393	Primer fo
AC112668	Mus muscu
BX323884	Zebrafish
CR354610	Danio rer
AL138833	Homo sapi
AC150839	Papio anu
AC150022	Papio anu
BV198823	squml19895
CQ429871	Sequence
CQ420997	Sequence
BC018306	Mus muscu
CQ575136	Sequence
BT010092	Drosophil
AR036570	Sequence
BD084119	Polymorph
CQ715838	Sequence
AX410807	Sequence
U90544	Human sodiu
CQ575135	Sequence
AC014246	Drosophil
AL138726	Human DNA
AC010918	Drosophil
AC012145	Homo sapi
AC023685	Drosophil
AC023711	Drosophil
AL590388	Mouse DNA
AL627315	Mus muscu
BD084121	Polymorph
BD084122	Polymorph
AC130391	Rattus no
AR036572	Sequence
AR036573	Sequence
AR036574	Sequence
U91328	Human heret
AE003491	Drosophil
AX559247	Gallus ga
CQ725168	Sequence

78	11	2.2	1720	3	AK116431	AK116431 Ciona int	c 151	9	1.8	1952	9	AF218942	AF218942 Homo sapi
79	11	2.2	2019	9	BC069629	BC069629 Homo sapi	c 152	9	1.8	1963	9	AF225426	AF225426 Homo sapi
80	11	2.2	2020	9	BC069640	BC069640 Homo sapi	c 153	9	1.8	2031	6	CQ069462	CQ069462 Sequence
81	11	2.2	2020	9	BC069646	BC069646 Homo sapi	154	9	1.8	2229	10	AB025224	AB025224 Rattus no
82	11	2.2	2528	6	AX709538	AX709538 Sequence	155	9	1.8	2316	10	AB025223	AB025223 Rattus no
83	11	2.2	2528	6	AX743438	AX743438 Sequence	c 156	9	1.8	2491	10	BC003920	BC003920 Mus muscu
84	11	2.2	2528	10	AF324864	AF324864 Mus muscu	c 157	9	1.8	2545	10	BC027240	BC027240 Mus muscu
85	11	2.2	3728	10	BC038375	BC038375 Mus muscu	c 158	9	1.8	2586	10	AF325535	AF325535 Mus muscu
86	11	2.2	3946	6	AX709532	AX709532 Sequence	159	9	1.8	3021	3	AY119484	AY119484 Drosophil
87	11	2.2	3946	6	AX743492	AX743492 Sequence	c 160	9	1.8	3317	3	CQ612639	CQ612639 Sequence
88	11	2.2	3946	9	AB032435	AB032435 Homo sapi	c 161	9	1.8	4348	3	AY195738	AY195738 Drosophil
89	11	2.2	3982	6	AX700122	AX700122 Sequence	c 162	9	1.8	5000	14	AF032994	AF032994 Trichoplu
90	11	2.2	3982	6	AX709534	AX709534 Sequence	163	9	1.8	5397	9	AB007955	AB007955 Homo sapi
91	11	2.2	3982	6	AX743494	AX743494 Sequence	164	9	1.8	7402	6	CQ612638	CQ612638 Sequence
92	11	2.2	3982	10	AF271235	AF271235 Rattus no	165	9	1.8	10734	1	AE006146	AE006146 Pasteurel
93	11	2.2	64356	2	AC090586	AC090586 Homo sapi	c 166	9	1.8	13706	3	US8737	US8737 Caenorhabdi
94	11	2.2	123847	2	AC118880	AC118880 Rattus no	167	9	1.8	14189	9	HSPLECTIN	Z54367 H sapiens g
95	11	2.2	143063	9	AC040936	AC040936 Homo sapi	168	9	1.8	14569	6	CQ723189	CQ723189 Sequence
96	11	2.2	146479	2	AC119499	AC119499 Rattus no	169	9	1.8	14626	9	AY480045	AY480045 Homo sapi
97	11	2.2	146515	9	AC104009	AC104009 Homo sapi	170	9	1.8	14646	9	AY480048	AY480048 Homo sapi
98	11	2.2	201957	2	AC113306	AC113306 Mus muscu	171	9	1.8	14675	9	AY480049	AY480049 Homo sapi
99	11	2.2	215541	2	AC016904	AC016904 Homo sapi	172	9	1.8	14689	9	AY480050	AY480050 Homo sapi
100	11	2.2	243860	2	AC114710	AC114710 Rattus no	173	9	1.8	14751	9	AY480046	AY480046 Homo sapi
101	11	2.2	323443	2	AC145086	AC145086 Mus muscu	174	9	1.8	14755	9	AY480044	AY480044 Homo sapi
102	11	2.2	1432	10	AY102171	AY102171 Rattus no	175	9	1.8	14797	9	AY480051	AY480051 Homo sapi
103	10	2.0	1575	6	CQ609459	CQ609459 Sequence	176	9	1.8	14800	6	AX334119	AX334119 Sequence
104	10	2.0	1641	6	CQ596652	CQ596652 Sequence	177	9	1.8	14800	6	HSU53204	HSU53204 Human plect
105	10	2.0	1700	6	AX827782	AX827782 Sequence	178	9	1.8	14835	6	AX281704	AX281704 Sequence
106	10	2.0	1700	10	RNU28504	U28504 Rattus norv	179	9	1.8	15249	9	AY480047	AY480047 Homo sapi
107	10	2.0	1786	6	CQ580608	CQ580608 Sequence	180	9	1.8	20717	2	AC013104	AC013104 Drosophil
108	10	2.0	1840	3	BT010253	BT010253 Drosophil	181	9	1.8	22693	9	HSPLEC183	U63610 Human plect
109	10	2.0	1841	3	AY060776	AY060776 Drosophil	182	9	1.8	37121	3	AC099766	AC099766 Caenorhab
110	10	2.0	1848	10	BC078748	BC078748 Rattus no	183	9	1.8	38164	2	AC142397	AC142397 Homo sapi
111	10	2.0	1848	10	MMNP11CT	X77241 M musculus	c 184	9	1.8	43668	9	AC142398	AC142398 Homo sapi
112	10	2.0	2004	10	BC013445	BC013445 Mus muscu	185	9	1.8	47337	2	EX548242	EX548242 Homo sapi
113	10	2.0	3810	6	CQ609458	CQ609458 Sequence	186	9	1.8	64135	9	ALU58080	ALU58080 Human DNA
114	10	2.0	4774	6	CQ580607	CQ580607 Sequence	187	9	1.8	74629	2	AC101440	AC101440 Mus muscu
115	10	2.0	6872	6	CQ596651	CQ596651 Sequence	188	9	1.8	75001	9	AC093167	AC093167 Homo sapi
116	10	2.0	7125	6	CQ609461	CQ609461 Sequence	189	9	1.8	76813	9	AL646016	AL646016 Homo DNA
117	10	2.0	19371	3	CEK1069	Z36282 Caenorhabdi	c 190	9	1.8	78340	5	AL935028	AL935028 Zebrafish
118	10	2.0	26206	10	MMU320524	AJ320524 Mus muscu	c 191	9	1.8	86710	8	ATF23E12	AL022604 Arabidops
119	10	2.0	28772	3	CET07A5	Z48055 Caenorhabdi	c 192	9	1.8	86998	9	AP008275	AP008275 Homo sapi
120	10	2.0	36842	2	AC020252	AC020252 Drosophil	193	9	1.8	101601	9	AC079034	AC079034 Homo sapi
121	10	2.0	80091	9	AC094088	AC094088 Homo sapi	194	9	1.8	107893	5	EX276180	EX276180 Zebrafish
122	10	2.0	86419	3	AC004345	AC004345 Drosophil	c 195	9	1.8	109138	9	AC104084	AC104084 Homo sapi
123	10	2.0	93287	9	AC080097	AC080097 Homo sapi	c 196	9	1.8	110000	1	REU80928	U80928 Rhizobium e
124	10	2.0	110000	2	EX321891_0	EX321891 Danio rer	c 197	9	1.8	110000	2	AL310929_0	AL110929 Rattus no
125	10	2.0	110000	2	EX321891_2	Continuation (3 of	c 198	9	1.8	112782	2	AL359829	AL359829 Homo sapi
126	10	2.0	110482	2	AC018326	AC018326 Drosophil	c 199	9	1.8	119199	2	AP003812	AP003812 Oryza sat
127	10	2.0	124224	5	EX294657	EX294657 Zebrafish	200	9	1.8	127274	10	AL935270	AL935270 Mouse DNA
128	10	2.0	149597	2	AC034371	AC034371 Homo sapi	c 201	9	1.8	135620	9	AC146048	AC146048 Pan trogl
129	10	2.0	167098	2	AC023952	AC023952 Homo sapi	c 202	9	1.8	137218	2	OSJN00037	AL606617 Oryza sat
130	10	2.0	170105	3	AC007756	AC007756 Drosophil	c 203	9	1.8	138780	8	AP004344	AP004344 Oryza sat
131	10	2.0	170939	3	AC007757	AC007757 Drosophil	c 204	9	1.8	140489	2	AC023066	AC023066 Homo sapi
132	10	2.0	173373	3	AC099016	AC099016 Drosophil	205	9	1.8	142726	9	AC104836	AC104836 Homo sapi
133	10	2.0	178044	2	AC121663	AC121663 Rattus no	206	9	1.8	150856	2	AC087072	AC087072 Homo sapi
134	10	2.0	183698	10	AL606464	AL606464 Mouse DNA	207	9	1.8	151448	2	AC074261	AC074261 Homo sapi
135	10	2.0	192358	3	AC099028	AC099028 Drosophil	c 208	9	1.8	153353	4	AC150707	AC150707 Bos tauru
136	10	2.0	209876	2	AL627315	AL627315 Mus muscu	c 209	9	1.8	155643	8	AP000391	AP000391 Oryza sat
137	10	2.0	221402	3	AE003730	AE003730 Drosophil	c 210	9	1.8	156064	9	AC083864	AC083864 Oryza sat
138	10	2.0	242365	3	AE003798	AE003798 Drosophil	c 211	9	1.8	156772	8	AC073405	AC073405 Oryza sat
139	9	1.8	495	10	F361762S09	AF361773 Mus muscu	212	9	1.8	157848	8	AP005744	AP005744 Oryza sat
140	9	1.8	660	8	HVLp90	X15692 Barley mRNA	c 213	9	1.8	158810	8	AP005916	AP005916 Oryza sat
141	9	1.8	764	8	HVLp60	X15691 Barley mRNA	c 214	9	1.8	162198	8	AP005916	AP005916 Oryza sat
142	9	1.8	1188	6	AX506256	AX506256 Sequence	c 215	9	1.8	163028	2	AC005877	AC005877 citb_19_o
143	9	1.8	1188	8	AY133542	AY133542 Arabidops	c 216	9	1.8	164518	2	AC122778	AC122778 Mus muscu
144	9	1.8	1367	8	AF462834	AF462834 Arabidops	c 217	9	1.8	165041	8	AP005837	AP005837 Oryza sat
145	9	1.8	1478	8	AY089078	AY089078 Arabidops	c 218	9	1.8	165269	9	AC140951	AC140951 Pan trogl
146	9	1.8	1518	10	AF326358	AF326358 Mus muscu	c 219	9	1.8	167161	2	AL645945	AL645945 Mus muscu
147	9	1.8	1542	9	BC014364	BC014364 Homo sapi	220	9	1.8	167578	5	EX649370	EX649370 Zebrafish
148	9	1.8	1671	10	AY009320	AY009320 Mus muscu	c 221	9	1.8	167663	9	AC093854	AC093854 Homo sapi
149	9	1.8	1684	10	BC078710	BC078710 Rattus no	222	9	1.8	167898	10	AL645630	AL645630 Mouse DNA
150	9	1.8	1938	6	AX285234	AX285234 Sequence	223	9	1.8	171025	9	AL161910	AL161910 Human DNA

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 16:46:21 ; Search time 4969.57 Seconds  
(without alignments)  
4105.478 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGATPPRPQPARPGPF.....LPAKEVQVWALNDHGHHRH 536

Scoring table: OLIGO

Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 34239544 seqs, 19032134700 residues

Word size: 1

Total number of hits satisfying chosen parameters: 68477535

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh  
-Q=/cgn2 1/USPTO spool/US09776865/runat 08072005 175612 23695/app query.fasta\_1.1358  
-DB=EST -QFMT=fastap -SUFFIX=oligo.rst -MINMATCH=0.1 -LCOPL=0 -LCOPEXT=0  
-UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi -LIST=1000  
-LOCALIGN=200 -THR\_SCORE=quality -THR\_MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc  
-NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
-USER=US09776865@cgn 1 1.6461@runat 08072005 175612 23695 -NCPU=6 -ICPU=3  
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG  
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database : EST:\*  
1: gb\_est1:\*  
2: gb\_est2:\*  
3: gb\_hic:\*  
4: gb\_est3:\*  
5: gb\_est4:\*  
6: gb\_est5:\*  
7: gb\_est6:\*  
8: gb\_gss1:\*  
9: gb\_gss2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	520	97.0	3189	3	CR618872
2	285	53.2	1038	5	BX439809
3	251	46.8	1051	1	AL550137
4	211	39.4	663	7	CV023522
5	201	37.5	605	5	BX479639
6	194	36.2	584	5	BP288606
7	194	36.2	913	5	BX348297
8	193	36.0	581	5	BP298092
9	192	35.8	582	5	BP302998

10	189	35.3	570	5	BP274537
11	189	35.3	581	5	BP297030
12	189	35.3	626	2	BF676817
13	187	34.9	581	5	BP281761
14	186	34.7	901	6	CD106410
15	185	34.5	581	5	BP285186
16	185	34.5	582	5	BP288187
17	185	34.5	630	6	CB138761
18	181	33.8	583	4	BM381878
19	178	33.2	537	6	CB158910
20	178	33.2	537	6	CB159829
21	176	32.8	554	5	BP220609
22	175	32.6	582	5	BP367879
23	169	31.5	581	5	BP252687
24	161	30.0	579	5	BP344739
25	154	28.7	736	4	BI860521
26	152	28.4	1059	5	BX425026
27	150	28.0	582	5	BP287958
28	143	26.7	580	5	BP285113
29	141	26.3	700	2	BB698919
30	139	25.9	676	2	BB676111
31	133	24.8	736	5	BP223105
32	130	24.3	432	1	AA258513
33	122	22.8	582	5	BP285070
34	122	22.8	582	5	BP287215
35	114	21.3	754	4	BI907284
36	114	21.3	947	7	CO579484
37	106	19.8	579	5	BP333962
38	100	18.7	616	5	BP238694
39	96	17.9	602	5	BP349262
40	92	17.2	301	7	N31254
41	87	16.2	571	5	BP221449
42	87	16.2	708	7	CR763802
43	85	15.9	495	6	CR129218
44	79	14.7	367	7	H63685
45	75	14.0	499	1	AL597124
46	73	13.6	566	1	AU279688
47	71	13.2	893	4	BG541099
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53	61	11.4	700	7	CR786597
54	49	9.1	1007	4	BM804862
55	48	9.0	949	7	CF412264
56	47	8.8	429	2	BF563945
57	46	8.6	428	6	CB794359
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65	36	6.7	721	7	CR833565
66	36	6.7	791	7	CV110989
67	35	6.5	611	1	AJ734276
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69	34	6.3	618	7	CF170114
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72	34	6.3	801	4	BI661062
73	34	6.3	813	7	CF618610
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76	33	6.2	498	4	BQ699380
77	33	6.2	509	4	BQ696296
78	33	6.2	618	4	BQ696202
79	33	6.2	620	4	BQ699327
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82	32	6.0	518	1	AA833297

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BP285186	BP285186
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CB138761	K-EST0191
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BI860521	603386787
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BP333962	BP333962
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BP349262	BP349262
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BP221449	BP221449
CR763802	DKFZ64690
CR129218	K-EST0178
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AL597124	DKFZ63113H
AU279688	AU279688
BG541099	602570265
BF971208	602732220
CB161355	K-EST0221
A1660219	we68e09.x
CG465026	KR1BB.2D
BG400588	602464241
CR786597	4120614.B
BM804862	AGENCOURT
CF412264	CH34078.F
BF563945	UI-R-C4-a
CB794359	AMGNNUC.T
CR833737	4057771.B
BQ322417	RC5-CS002
BI817031	UMN07B04
CR812709	GR0AAA36D
CB166094	KXE603014
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BG198416	RST17674
CR833565	4057467.B
CV110989	AGENCOURT
AJ734276	AJ734276
AJ734267	AJ734267
CF170114	B0822602
BI697765	603346858
CA327442	UI-N-FY0
BI661062	603304362
CF618610	AGENCOURT
CF810037	GR0AAA33B
AK029102	Mus_muscu
BQ699380	BQ699380
BQ696296	BQ696296
BQ696202	BQ696202
BQ699327	BQ699327
CR462700	CR462700
CB782262	AMGNNUC.C
AA833297	ud05d09.r

83	32	6.0	658	4	B1851890	603378047	156	16	3.0	344	5	BY021590	BY021590
84	32	6.0	740	5	CB317739	AGENCOURT	c 157	16	3.0	423	9	CG653532	CG653532
85	32	6.0	1241	5	BU504522	AGENCOURT	c 158	16	3.0	909	9	CNS0409J	AL297136 Tetraodon
86	31	5.8	495	6	CB713294	AMGNNUC:C	159	16	3.0	1028	6	CNS03MJZ	AL250856 Tetraodon
87	31	5.8	645	2	BB537525	BB537525	160	15	2.8	228	6	CD730851	CD730851 4039842 1
88	31	5.8	831	3	AK087395	Mus muscu	161	15	2.8	239	5	BY179630	BY179630 BY179630
c 89	30	5.6	321	2	AW531337	AW531337	162	15	2.8	433	6	CB760265	CB760265 AMGNNUC:C
90	29	5.4	288	7	CR775730	UI-R-C4-a	163	15	2.8	485	4	BI041275	BI041275 MR4-NT014
91	27	5.0	599	4	BJ520485	BJ520485	164	15	2.8	560	4	BJ032567	BJ032567 BJ032567
c 92	27	5.0	649	1	AJ734277	AJ734277	165	15	2.8	575	4	BJ692156	BJ692156 BJ692156
93	27	5.0	661	4	BG400668	BG400668	166	15	2.8	603	4	BJ703130	BJ703130 BJ703130
94	27	5.0	682	2	BB613552	BB613552	167	15	2.8	647	4	BI445533	BI445533 dae91h09.
95	27	5.0	776	5	BB82862	BB82862	168	14	2.6	604	1	BY645660	BY645660 BJ645660
96	27	5.0	965	4	BG290613	BG290613	c 169	14	2.6	674	3	AJ734275	AJ734275 Mus muscu
97	26	4.9	610	1	AL792191	AL792191	170	14	2.6	2674	3	AK014522	AK014522 Mus muscu
98	25	4.7	785	7	CF285351	AMGNNUC:C	171	13	2.4	563	7	CK876614	CK876614 SGPI37897
99	24	4.5	447	6	CB747168	AMGNNUC:C	c 172	13	2.4	596	6	CB505018	CB505018 ssalplmb5
100	24	4.5	482	6	CB728076	AMGNNUC:C	c 173	13	2.4	646	9	DR48D4T	AL978749 Danio rer
c 101	24	4.5	587	9	CR035573	Forward s	174	13	2.4	774	5	BB864265	BB864265 BX864265
102	24	4.5	609	4	BJ692199	BJ692199	175	13	2.4	943	9	CNS035ZN	AL229388 Tetraodon
103	24	4.5	895	2	BF539146	BF539146	c 176	12	2.2	387	8	AZ772115	AZ772115 IM0574G13
104	23	4.3	464	6	CB365128	CB365128	177	12	2.2	668	4	BJ649120	BJ649120 BJ649120
105	23	4.3	555	7	CK687033	CK687033	178	12	2.2	673	4	BJ646218	BJ646218 BJ646218
106	23	4.3	620	7	CF417013	STRO1011	179	11	2.1	300	5	BY278427	BY278427 BY278427
107	23	4.3	686	7	CK690892	CK690892	180	11	2.1	359	7	RI1332	RI1332 YF41911.1
108	23	4.3	731	7	CK696626	ZF101-P00	181	11	2.1	431	7	H52987	H52987 YG82H03.1
109	23	4.3	784	7	CK024678	AGENCOURT	182	11	2.1	472	5	BY240979	BY240979 BY240979
110	23	4.3	882	9	CN178455	AGENCOURT	183	11	2.1	485	6	CB727195	CB727195 AMGNNUC:N
c 111	22	4.1	348	9	CG498267	CG498267	c 184	11	2.1	548	5	BQ366104	BQ366104 QV4-GN012
112	22	4.1	436	6	BY651956	BY651956	185	11	2.1	581	5	BP361755	BP361755 BP361755
113	22	4.1	449	6	CB742771	AMGNNUC:C	186	11	2.1	582	5	BP309703	BP309703 BP309703
114	22	4.1	524	5	BY478871	BY478871	187	11	2.1	596	6	CB583897	CB583897 AMGNNUC:C
115	22	4.1	690	1	AJ447666	AJ447666	188	11	2.1	604	2	AV964340	AV964340 AV964340
116	22	4.1	738	1	AJ455947	AJ455947	189	11	2.1	605	7	CF534235	CF534235 UI-M-FY0-
c 117	22	4.1	752	2	BE876444	BE876444	190	11	2.1	615	2	AV963492	AV963492 AV963492
118	22	4.1	810	1	AJ455169	AJ455169	191	11	2.1	634	5	BU611855	BU611855 UI-M-FY0-
119	21	3.9	311	5	BY190277	BY190277	192	11	2.1	635	6	BY723745	BY723745 BY723745
120	21	3.9	345	5	BY138011	BY138011	193	11	2.1	636	4	BJ617191	BJ617191 BJ617191
121	21	3.9	349	6	BY793266	BY793266	194	11	2.1	648	5	BM331471	BM331471 BM331471
122	21	3.9	355	5	BY196504	BY196504	195	11	2.1	649	5	BM328845	BM328845 BM328845
123	21	3.9	426	5	BY284055	BY284055	196	11	2.1	652	7	CF735479	CF735479 UI-M-HB0-
124	21	3.9	427	5	BY278620	BY278620	197	11	2.1	654	5	BU611275	BU611275 UI-M-FY0-
125	21	3.9	436	5	BY246932	BY246932	198	11	2.1	656	6	CB247147	CB247147 UI-M-FY0-
126	21	3.9	440	5	BY031138	BY031138	199	11	2.1	669	5	BM347197	BM347197 BM347197
127	21	3.9	457	5	BY241444	BY241444	200	11	2.1	673	5	BM262098	BM262098 BM262098
128	21	3.9	471	5	BY245489	BY245489	c 201	11	2.1	688	7	CN154791	CN154791 942031 MA
129	21	3.9	479	2	BB862822	BB862822	202	11	2.1	688	7	CN156898	CN156898 944335 MA
130	21	3.9	494	5	BY254429	BY254429	203	11	2.1	689	5	BM106560	BM106560 BX106560
131	21	3.9	573	9	CG533752	CG533752	204	11	2.1	707	5	BU364515	BU364515 603584810
132	21	3.9	629	2	BB664731	BB664731	205	11	2.1	713	7	CK420161	CK420161 AUF_Iptirk
133	21	3.9	647	7	CR427276	CR427276	206	11	2.1	728	5	BM429788	BM429788 BM429788
134	21	3.9	772	2	BF123545	BF123545	207	11	2.1	729	7	CK420266	CK420266 AUF_Iptirk
135	21	3.9	861	5	BU907938	BU907938	208	11	2.1	790	5	BQ769444	BQ769444 UI-M-FY0-
136	21	3.9	1100	4	BG866603	BG866603	209	11	2.1	806	4	BI730182	BI730182 60349726
137	20	3.9	1165	5	BQ715048	AGENCOURT	c 210	11	2.1	866	7	CK413667	CK413667 AUF_Iptirk
138	20	3.7	334	1	AJ734368	AJ734368	211	11	2.1	940	9	CU1516083	CU1516083 SAIL_912
139	20	3.7	445	2	BE375421	BE375421	212	11	2.1	951	5	BQ959761	BQ959761 AGENCOURT
140	20	3.7	470	5	BQ345391	MR4-NT014	213	11	2.1	1716	9	AY415645	AY415645 Pan trogl
141	20	3.7	589	5	BU127798	BU127798	214	11	2.1	1749	9	AY415644	AY415644 Homo sapi
142	19	3.5	587	4	BM179717	BM179717	215	11	2.1	1749	9	AY415646	AY415646 Mus muscu
143	19	3.5	770	7	CF289959	AGENCOURT	216	11	2.1	2720	3	AK043753	AK043753 Mus muscu
144	19	3.5	886	5	BQ737435	BQ737435	217	11	2.1	3078	6	CD784886	CD784886 EST65247
145	19	3.5	904	2	BF124137	BF124137	218	11	2.1	457	3	AK045409	AK045409 Mus muscu
146	18	3.4	301	6	CB700764	CB700764	c 219	10	1.9	394	8	AQ224962	AQ224962 HS_2009_B
147	18	3.4	423	6	CB593459	AMGNNUC:C	c 220	10	1.9	414	9	CG565748	CG565748 OST1908T0
148	18	3.4	423	5	BY274305	BY274305	221	10	1.9	425	6	CB408696	CB408696 IPG012G02
c 149	18	3.4	429	8	BZ877289	CH240_276	222	10	1.9	435	5	BX549666	BX549666 BX549666
150	18	3.4	630	2	BB610013	BB610013	223	10	1.9	438	5	BX552282	BX552282 BX552282
151	18	3.4	632	4	BJ031727	BJ031727	224	10	1.9	464	2	BE722554	BE722554 190847 MA
152	17	3.2	55	1	AA625063	af66903_r	225	10	1.9	475	5	BX558184	BX558184 BX558184
153	17	3.2	331	5	BY317931	BY317931	c 226	10	1.9	486	8	B80770	B80770 CIT-HSP-200
154	17	3.2	425	7	CK688160	ZF101-P00	227	10	1.9	525	2	BE722641	BE722641 190866 MA
155	17	3.2	721	4	BJ060500	BJ060500	228	10	1.9	544	5	BX765507	BX765507 BX765507

GenCore version 5.1.6  
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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 21:49:36 ; Search time 909.796 Seconds

(without alignments)  
3698.824 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGAMTTPRPVQPARPGCF.....LFAKGEVQWALNDHGHHRH 536

Scoring table: OLIGO

Xgapop 60.0 , Xgapext 60.0

Ygapop 60.0 , Ygapext 60.0

Fgapop 6.0 , Fgapext 7.0

Delop 6.0 , Delext 7.0

Searched: 6330943 seqs, 3139157217 residues

Word size: 1

Total number of hits satisfying chosen parameters: 12650797

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters: -DEV=xlh  
-MODEL=frame+ p2n.model -DB=fastap -SUFFIX=oligo.rnpb -MINMATCH=0.1  
-Q=/cgn2\_1/USPTO\_spool/US09776865/runat\_08072005\_175614\_23755/app\_query.fasta\_1.1358  
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-LOOPEXT=0 -UNIT5=bits -START=1 -END=1 -MATRIX=oligo  
-TRANS=human40 cdi -LIST=1000 -DOALIGN=200 -THR\_SCORE=quality -THR\_MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFM=ptco -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09776865 @CIGN\_1\_1065 @runat\_08072005\_175614\_23755  
-NCPU=6 -ICPU=3 -NO MAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100  
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPEXT=60  
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Database : Published Applications NA:

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25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	536	100.0	2930	9	US-09-776-865-1	Sequence 1, Appli
2	536	100.0	2930	21	US-10-823-506-7	Sequence 7, Appli
3	529	98.7	2626	14	US-10-198-846-12482	Sequence 12482, A
4	529	98.7	3362	10	US-09-814-353-19097	Sequence 19097, A
5	522	97.4	3292	21	US-10-887-553A-858	Sequence 858, App
6	522	97.4	3292	19	US-10-755-889-587	Sequence 587, App
7	514	95.9	2602	21	US-10-823-506-1	Sequence 1, Appli
8	394	73.5	1488	13	US-10-098-841-322	Sequence 322, App
9	284	53.0	1872	17	US-10-264-049-302	Sequence 302, App
10	187	40.5	1651	17	US-10-264-237-946	Sequence 946, App
11	180	33.6	1975	18	US-10-296-115-461	Sequence 461, App
12	162	30.2	494	10	US-09-814-353-12829	Sequence 12829, A
13	151	28.2	498	10	US-09-814-353-46	Sequence 46, Appli
14	151	28.2	498	10	US-09-814-353-6444	Sequence 6444, Ap
15	151	28.2	516	14	US-10-198-846-9093	Sequence 9093, Ap
16	119	22.2	1229	18	US-10-641-643-660	Sequence 660, App
17	109	20.3	1975	18	US-10-296-115-461	Sequence 461, App
18	108	20.1	756	14	US-10-198-846-4797	Sequence 4797, Ap
19	69	12.9	217	17	US-10-305-720-602	Sequence 602, App
20	64	11.9	196	9	US-09-878-178-1320	Sequence 1320, Ap
21	64	11.9	196	13	US-10-046-935-1320	Sequence 1320, Ap
22	64	11.9	196	14	US-10-146-502-1320	Sequence 1320, Ap
23	61	11.4	1485	21	US-10-823-506-9	Sequence 9, Appli
24	61	11.4	2844	9	US-09-776-865-3	Sequence 3, Appli
25	61	11.4	2844	21	US-10-823-506-3	Sequence 3, Appli
26	30	5.6	1485	21	US-10-823-506-11	Sequence 11, Appli
27	21	3.9	573	9	US-09-728-446-1228	Sequence 1228, Ap
28	21	3.9	1549	11	US-09-968-007A-234	Sequence 234, App
29	11	2.1	1549	11	US-09-968-007A-692	Sequence 692, App
30	11	2.1	1549	21	US-10-843-641A-6704	Sequence 6704, Ap
31	11	2.1	1549	21	US-10-843-641A-7162	Sequence 7162, Ap
32	11	2.1	2528	20	US-10-734-731-13	Sequence 13, Appli
33	11	2.1	2528	20	US-10-807-500-13	Sequence 13, Appli
34	11	2.1	3423	16	US-10-233-045-21	Sequence 21, Appli
35	11	2.1	3946	20	US-10-734-731-9	Sequence 9, Appli
36	11	2.1	3946	20	US-10-807-500-9	Sequence 9, Appli
37	11	2.1	3946	21	US-10-887-553A-1016	Sequence 1016, Ap
38	11	2.1	3982	18	US-10-205-331-8	Sequence 8, Appli
39	11	2.1	3982	20	US-10-734-731-11	Sequence 11, Appli
40	11	2.1	3982	20	US-10-807-500-11	Sequence 11, Appli
41	10	1.9	512	16	US-10-029-386-556	Sequence 556, App
42	10	1.9	657	17	US-10-398-221-2581	Sequence 2581, Ap
43	10	1.9	875	17	US-10-369-493-29558	Sequence 29558, A
44	10	1.9	1425	17	US-10-369-493-29560	Sequence 29560, A
45	10	1.9	2281	9	US-09-880-107-3453	Sequence 3453, Ap
46	10	1.9	2281	17	US-10-159-563-337	Sequence 337, App
47	10	1.9	235033	15	US-10-301-844-1	Sequence 1, Appli
48	10	1.9	237326	15	US-10-301-844-2	Sequence 2, Appli
49	10	1.9	684707	17	US-10-398-221-9	Sequence 9, Appli
50	10	1.9	3011208	17	US-10-398-221-2058	Sequence 2058, Ap
51	9	1.7	408	20	US-10-425-115-115614	Sequence 115614, A
52	9	1.7	699	18	US-10-333-184-501	Sequence 501, App
53	9	1.7	709	21	US-10-487-901-2882	Sequence 2882, Ap
54	9	1.7	741	20	US-10-425-115-158940	Sequence 158940, A
55	9	1.7	764	21	US-10-487-901-6701	Sequence 6701, Ap
56	9	1.7	855	19	US-10-437-963-101872	Sequence 101872, A
57	9	1.7	951	17	US-10-369-493-42428	Sequence 42428, A
58	9	1.7	957	20	US-10-425-115-14823	Sequence 14823, A
59	9	1.7	1700	17	US-10-388-934-516	Sequence 516, App
60	9	1.7	1700	18	US-10-152-319A-2122	Sequence 2122, Ap
61	9	1.7	1753	18	US-10-424-599-21988	Sequence 21988, A
62	9	1.7	2760	19	US-10-437-963-81448	Sequence 81448, A
63	9	1.7	3819	19	US-10-437-963-81678	Sequence 81678, A
64	9	1.7	6509	19	US-10-437-963-66978	Sequence 66978, A
65	9	1.7	247544	19	US-10-322-696-55	Sequence 55, Appli



C 66	9	1.7	252907	20	US-10-417-375-66	Sequence 66, Appl	139	8	1.5	760	21	US-10-643-836-122	Sequence 122, App
C 67	8	1.5	25	22	US-10-843-527-28883	Sequence 28883, A	140	8	1.5	762	9	US-09-731-872-234	Sequence 234, App
C 68	8	1.5	25	22	US-10-843-527-29859	Sequence 29859, A	141	8	1.5	762	9	US-09-876-997-234	Sequence 234, App
C 69	8	1.5	25	22	US-10-843-527-206854	Sequence 206854, A	142	8	1.5	762	21	US-10-643-836-234	Sequence 234, App
C 70	8	1.5	25	22	US-10-843-527-207830	Sequence 207830, A	143	8	1.5	773	20	US-10-425-115-21496	Sequence 21496, A
C 71	8	1.5	60	10	US-09-908-975-19851	Sequence 19851, A	c 144	8	1.5	786	13	US-10-027-632-152869	Sequence 152869, A
C 72	8	1.5	215	20	US-10-425-115-103673	Sequence 103673, A	c 145	8	1.5	786	17	US-10-027-632-152869	Sequence 152869, A
C 73	8	1.5	301	13	US-10-027-632-12420	Sequence 12420, A	c 146	8	1.5	799	13	US-10-027-632-165402	Sequence 165402, A
C 74	8	1.5	301	17	US-10-027-632-12420	Sequence 12420, A	c 147	8	1.5	799	17	US-10-027-632-165402	Sequence 165402, A
C 75	8	1.5	321	19	US-10-767-795-4558	Sequence 4558, Ap	c 148	8	1.5	800	13	US-10-194-163-676	Sequence 676, App
C 76	8	1.5	345	19	US-10-437-963-26074	Sequence 26074, A	c 149	8	1.5	828	20	US-10-363-345A-18203	Sequence 18203, A
C 77	8	1.5	369	19	US-10-437-963-100412	Sequence 100412, A	c 150	8	1.5	828	20	US-10-363-345A-18204	Sequence 18204, A
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C 81	8	1.5	429	9	US-09-960-352-2218	Sequence 2218, Ap	c 154	8	1.5	855	13	US-10-027-632-168562	Sequence 168562, A
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C 83	8	1.5	473	17	US-10-242-535A-42123	Sequence 42123, A	c 156	8	1.5	868	20	US-10-425-115-181557	Sequence 181557, A
C 84	8	1.5	473	18	US-10-085-783A-42123	Sequence 42123, A	c 157	8	1.5	874	20	US-10-363-345A-20585	Sequence 20585, A
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Searched: 1202784 seqs, 818138359 residues

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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c 96	8	1.5	7170	4	US-09-902-540-933	Sequence 933, App	169	8	1.5	4411529	3	US-09-103-840A-1	Sequence 1, Appli
c 97	8	1.5	7731	4	US-09-949-016-13135	Sequence 13135, A	170	8	1.3	25	4	US-09-866-108A-4132	Sequence 4132, Ap
c 98	8	1.5	9608	4	US-09-949-016-16706	Sequence 16706, A	171	7	1.3	25	4	US-09-866-108A-4133	Sequence 4133, Ap
c 99	8	1.5	10216	4	US-09-902-540-976	Sequence 976, App	172	7	1.3	25	4	US-09-866-108A-4134	Sequence 4134, Ap
c 100	8	1.5	12787	4	US-09-949-016-16359	Sequence 16359, A	173	7	1.3	25	4	US-09-866-108A-4135	Sequence 4135, Ap
c 101	8	1.5	15543	4	US-09-949-016-17225	Sequence 17225, A	174	7	1.3	25	4	US-09-866-108A-4136	Sequence 4136, Ap
c 102	8	1.5	17480	4	US-09-902-540-1151	Sequence 1151, Ap	175	7	1.3	25	4	US-09-396-196G-23055	Sequence 23055, A
c 103	8	1.5	17592	4	US-09-902-540-1138	Sequence 1138, Ap	176	7	1.3	25	4	US-09-396-196G-64673	Sequence 64673, A
c 104	8	1.5	19161	4	US-09-949-016-15731	Sequence 15731, A	177	7	1.3	25	4	US-09-396-196G-89514	Sequence 89514, A
c 105	8	1.5	20444	4	US-09-949-016-15750	Sequence 15750, A	178	7	1.3	25	4	US-09-396-196G-89515	Sequence 89515, A
c 106	8	1.5	20966	4	US-09-776-976-7	Sequence 7, Appli	179	7	1.3	37	4	US-09-120-561C-4	Sequence 4, Appli
c 107	8	1.5	20966	4	US-09-909-547-7	Sequence 7, Appli	180	7	1.3	66	4	US-09-513-999C-16232	Sequence 16232, A
c 108	8	1.5	20966	4	US-09-569-852B-1	Sequence 1, Appli	181	7	1.3	67	3	US-09-242-690A-56	Sequence 56, Appl
c 109	8	1.5	2330	4	US-09-902-540-1209	Sequence 1209, Ap	182	7	1.3	67	4	US-09-908-855-56	Sequence 56, Appl
c 110	8	1.5	23301	4	US-09-949-016-12924	Sequence 12924, A	183	7	1.3	81	4	US-09-513-999C-19140	Sequence 19140, A
c 111	8	1.5	24791	4	US-09-902-540-1211	Sequence 1211, Ap	184	7	1.3	110	3	US-08-482-073-2	Sequence 2, Appli
c 112	8	1.5	26619	4	US-09-949-016-15030	Sequence 15030, A	185	7	1.3	131	4	US-09-621-976-17442	Sequence 17442, A
c 113	8	1.5	28172	4	US-09-902-540-1221	Sequence 1221, Ap	186	7	1.3	137	4	US-09-313-294A-6414	Sequence 6414, Ap
c 114	8	1.5	29465	4	US-09-949-016-12487	Sequence 12487, A	187	7	1.3	140	4	US-09-621-976-17457	Sequence 17457, A
c 115	8	1.5	34552	4	US-09-902-540-1262	Sequence 1262, Ap	188	7	1.3	148	4	US-09-270-767-29675	Sequence 29675, A
c 116	8	1.5	35122	4	US-09-949-016-11873	Sequence 11873, A	189	7	1.3	167	4	US-09-513-999C-33418	Sequence 33418, A
c 117	8	1.5	47683	4	US-09-949-016-16460	Sequence 16460, A	190	7	1.3	185	4	US-09-270-767-28795	Sequence 28795, A
c 118	8	1.5	47799	4	US-09-949-016-13363	Sequence 13363, A	191	7	1.3	185	4	US-09-270-767-29422	Sequence 29422, A
c 119	8	1.5	63783	4	US-09-949-016-13576	Sequence 13576, A	192	7	1.3	185	4	US-09-270-767-30414	Sequence 30414, A
c 120	8	1.5	66804	4	US-09-740-041-3	Sequence 3, Appli	193	7	1.3	189	4	US-09-107-532A-2866	Sequence 2866, Ap
c 121	8	1.5	7626	4	US-09-949-016-12608	Sequence 12608, A	194	7	1.3	190	4	US-09-513-999C-28555	Sequence 28555, A
c 122	8	1.5	84171	4	US-09-949-016-16356	Sequence 16356, A	195	7	1.3	207	4	US-09-270-767-30137	Sequence 30137, A
c 123	8	1.5	86414	4	US-09-949-016-12345	Sequence 12345, A	196	7	1.3	208	4	US-09-621-976-68884	Sequence 6884, Ap
c 124	8	1.5	86414	4	US-09-949-016-15758	Sequence 15758, A	197	7	1.3	213	3	US-09-189-060B-49	Sequence 49, Appl
c 125	8	1.5	88950	4	US-09-949-016-17150	Sequence 17150, A	198	7	1.3	213	4	US-09-902-540-8261	Sequence 8261, Ap
c 126	8	1.5	103447	4	US-09-949-016-16320	Sequence 16320, A	199	7	1.3	214	3	US-09-242-690A-10	Sequence 10, Appl
c 127	8	1.5	119032	4	US-09-949-016-12160	Sequence 12160, A	200	7	1.3	214	4	US-09-908-855-10	Sequence 10, Appl
c 128	8	1.5	119032	4	US-09-949-016-17268	Sequence 17268, A	201	7	1.3	217	6	5217870-3	Patent No. 5217870
c 129	8	1.5	137753	4	US-09-949-016-17404	Sequence 17404, A	202	7	1.3	221	4	US-09-313-294A-278	Sequence 278, App
c 130	8	1.5	142783	4	US-09-949-016-15127	Sequence 15127, A	203	7	1.3	221	4	US-09-248-796A-11411	Sequence 11411, A
c 131	8	1.5	146307	4	US-09-949-016-14881	Sequence 14881, A	204	7	1.3	222	4	Sequence 12859, A	Sequence 12859, A
c 132	8	1.5	146307	4	US-09-949-016-14882	Sequence 14882, A	205	7	1.3	225	4	Sequence 2469, Ap	Sequence 2469, Ap
c 133	8	1.5	146307	4	US-09-949-016-14883	Sequence 14883, A	206	7	1.3	228	4	Sequence 18597, A	Sequence 18597, A
c 134	8	1.5	146307	4	US-09-949-016-14884	Sequence 14884, A	207	7	1.3	233	4	Sequence 216, App	Sequence 216, App
c 135	8	1.5	146307	4	US-09-949-016-14885	Sequence 14885, A	208	7	1.3	240	4	Sequence 13278, A	Sequence 13278, A
c 136	8	1.5	146307	4	US-09-949-016-14886	Sequence 14886, A	209	7	1.3	244	4	Sequence 2412, Ap	Sequence 2412, Ap
c 137	8	1.5	146307	4	US-09-949-016-14887	Sequence 14887, A	210	7	1.3	245	4	Sequence 19631, A	Sequence 19631, A
c 138	8	1.5	146307	4	US-09-949-016-14888	Sequence 14888, A	211	7	1.3	250	4	Sequence 2329, Ap	Sequence 2329, Ap
c 139	8	1.5	148405	4	US-09-949-016-11747	Sequence 11747, A	212	7	1.3	252	4	Sequence 10299, A	Sequence 10299, A
c 140	8	1.5	148405	4	US-09-949-016-12835	Sequence 12835, A	213	7	1.3	255	4	Sequence 21, Appl	Sequence 21, Appl
c 141	8	1.5	148405	4	US-09-949-016-12836	Sequence 12836, A	214	7	1.3	255	3	Sequence 22, Appl	Sequence 22, Appl
c 142	8	1.5	148405	4	US-09-949-016-12837	Sequence 12837, A	215	7	1.3	256	4	Sequence 22, Appl	Sequence 22, Appl
c 143	8	1.5	17251	4	US-09-949-016-15841	Sequence 15841, A	216	7	1.3	258	4	Sequence 28, Appl	Sequence 28, Appl
c 144	8	1.5	197336	4	US-09-949-016-12881	Sequence 12881, A	217	7	1.3	263	4	Sequence 30, Appl	Sequence 30, Appl
c 145	8	1.5	197337	4	US-09-949-016-14376	Sequence 14376, A	218	7	1.3	265	4	Sequence 28, Appl	Sequence 28, Appl
c 146	8	1.5	197875	4	US-09-949-016-15425	Sequence 15425, A	219	7	1.3	265	4	Sequence 28, Appl	Sequence 28, Appl
c 147	8	1.5	200663	4	US-09-949-016-12569	Sequence 12569, A	220	7	1.3	266	4	Sequence 297, App	Sequence 297, App
c 148	8	1.5	203093	4	US-09-949-016-14445	Sequence 14445, A	221	7	1.3	266	4	Sequence 16180, A	Sequence 16180, A
c 149	8	1.5	203475	4	US-09-949-016-14516	Sequence 14516, A	222	7	1.3	271	4	Sequence 29, Appl	Sequence 29, Appl
c 150	8	1.5	203475	4	US-09-949-016-14517	Sequence 14517, A	223	7	1.3	279	4	Sequence 9776, Ap	Sequence 9776, Ap
c 151	8	1.5	203475	4	US-09-949-016-14518	Sequence 14518, A	224	7	1.3	288	4	Sequence 27104, A	Sequence 27104, A
c 152	8	1.5	203475	4	US-09-949-016-14519	Sequence 14519, A	225	7	1.3	291	4	Sequence 5500, Ap	Sequence 5500, Ap
c 153	8	1.5	203475	4	US-09-949-016-17226	Sequence 17226, A	226	7	1.3	297	4	Sequence 532, App	Sequence 532, App
c 154	8	1.5	203475	4	US-09-949-016-17227	Sequence 17227, A	227	7	1.3	302	4	Sequence 975, App	Sequence 975, App
c 155	8	1.5	203475	4	US-09-949-016-17228	Sequence 17228, A	228	7	1.3	309	4	Sequence 2591, App	Sequence 2591, App
c 156	8	1.5	203475	4	US-09-949-016-17229	Sequence 17229, A	229	7	1.3	310	3	Sequence 16, Appl	Sequence 16, Appl
c 157	8	1.5	206433	4	US-09-949-016-13527	Sequence 13527, A	230	7	1.3	310	3	Sequence 16, Appl	Sequence 16, Appl
c 158	8	1.5	234288	4	US-09-949-016-17272	Sequence 17272, A	231	7	1.3	324	3	Sequence 122, App	Sequence 122, App

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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:33:45 ; Search time 803.74 Seconds  
(without alignment)  
3947.771 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGATPPRPVQPARPGF.....LFAKEVQVWALNDHGHGRH 536

Scoring table: OLIGO

Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Word size: 1

Total number of hits satisfying chosen parameters: 8776198

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

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-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

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9: Geneseqn2003bs:\*

10: Geneseqn2003cs:\*

11: Geneseqn2003ds:\*

12: Geneseqn2004as:\*

13: Geneseqn2004bs:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	536	100.0	2930	3	AZ50879 Full leng
2	536	100.0	2930	4	AD10325 Human gro
3	529	98.7	2511	12	ADQ84158 Human tum
4	529	98.7	2512	4	AAF55900 Human AST
5	529	98.7	2626	11	ACN91332 Breast ca

6	529	98.7	3362	5	ADL45207 Human ova
7	522	97.4	3329	12	ADJ75057 Marker ge
8	522	97.4	3329	13	ADL4586 Human NF-
9	522	97.4	3329	13	ADP25216 PRO poly
10	514	95.9	2602	3	AZ50875 Partial h
11	394	73.5	1488	4	AAI58115 Human pol
12	321	59.9	2670	4	AAH79234 Human ood
13	304	56.7	929	4	AAI59901 Human pol
14	300	56.0	2712	4	AAK94876 Human ful
15	300	56.0	2712	12	ADL32035 Full leng
16	284	53.0	1872	6	ABQ54422 Human ova
17	264	49.3	853	4	AAQ93901 Human cDN
18	264	49.3	853	12	ADL30328 3' end of
19	217	40.5	1651	6	ABL90384 Human pol
20	200	37.3	838	4	AAK92364 Human cDN
21	200	37.3	838	12	ADL28791 5' end of
22	180	33.6	1975	4	AAH99626 Human pro
23	162	30.2	494	5	ADL38939 Human ova
24	151	28.2	498	5	ADI67304 Human ova
25	151	28.2	498	5	ADI71702 Human ova
26	151	28.2	516	11	ACN87943 Breast ca
27	144	26.9	798	5	AAK66219 DNA encod
28	144	26.9	1066	5	AAK77186 DNA encod
29	144	26.9	1066	8	ACD05897 Novel hum
30	124	23.1	375	5	AAH52158 Human AFP
31	119	22.2	1229	11	ADI13134 Human cDN
32	109	20.3	1975	4	AAH99626 Human pro
33	108	20.1	349	4	AAI13566 Human bre
34	108	20.1	756	11	ACN83647 Breast ca
35	87	16.2	264	4	AAI22435 Human bre
36	69	12.9	217	10	ACA56004 Human eig
37	69	12.9	217	12	ADI55800 Human pol
38	65	12.1	199	6	ABL37731 Human col
39	61	11.4	1485	3	AZ50880 Human/She
40	61	11.4	2844	3	AZ50876 Sheep GBS
41	61	11.4	2844	4	AAAD10326 Sheep gro
42	30	5.6	1485	3	AZ50881 Human/She
43	21	3.9	573	6	ABQ97960 Mouse ES
44	13	2.4	41	4	AAH79239 Human Na
45	11	2.1	36	4	AAH79235 Human Na
46	11	2.1	1549	6	ABL68367 Kidney ca
47	11	2.1	1549	6	ABL68825 Kidney ca
48	11	2.1	1549	12	ADP12787 Reference
49	11	2.1	2528	8	ABX13555 Murine DN
50	11	2.1	2528	10	ADC15493 Mouse DNP
51	11	2.1	3422	4	AAK52406 Human pol
52	11	2.1	3946	8	ABX13553 Human DNP
53	11	2.1	3946	10	ADC15489 Human DNP
54	11	2.1	3982	8	ABX13554 Rat DNPI
55	11	2.1	3982	9	ACF25330 Rat Na-de
56	11	2.1	3982	10	ADC15491 Rat DNPI
57	10	1.9	512	12	ACH67361 Human gen
58	10	1.9	657	6	ABQ69768 Listeria
59	10	1.9	875	13	ADS51128 Bacterial
60	10	1.9	1161	12	ADP28533 Human sec
61	10	1.9	1425	13	ADS51130 Bacterial
62	10	1.9	2269	10	ADL24752 Intestina
63	10	1.9	2281	2	AAV57909 Human hae
64	10	1.9	2281	6	ABN96956 Gene #345
65	10	1.9	2281	10	ADP90827 Human hep
66	10	1.9	84707	6	ABQ67196_6 Continuation (7 of
67	10	1.9	110000	6	ABQ67196_5 Continuation (6 of
68	10	1.9	110000	6	ABQ69245_26 Continuation (27 o
69	10	1.9	235033	2	AAV57926 Hereditar
70	10	1.9	237326	2	AAV57903 Hereditar
71	9	1.7	28	12	ADJ76658 SLC17A5 r
72	9	1.7	33	4	AAH79237 Human Na
73	9	1.7	234	3	AAH7459 Rat hepat
74	9	1.7	467	11	ADM45044 Insect re
75	9	1.7	580	2	AAZ5084 Polynucle
76	9	1.7	695	10	ADD16789 DNA (SeqI
77	9	1.7	699	6	ABK31087 Plant dwa
78	9	1.7	709	10	ADK55499 Plant DNA

C 79	9	1.7	715	10	ADC75987	Adc75987 DNA homol	152	8	1.5	633	6	ABQ47238	Abq47238 Oligonucl
C 80	9	1.7	764	10	ADD17608	Adi17608 DNA (SeqI	153	8	1.5	663	10	ADC30820	Adc30820 Human nov
C 81	9	1.7	764	10	ADK59318	Adk59318 Plant DNA	154	8	1.5	666	13	ADS50268	Ads50268 Bacterial
C 82	9	1.7	764	11	ADM45659	Adm45659 Insect re	155	8	1.5	705	8	ACA32325	AcA32325 Prokaryot
C 83	9	1.7	951	13	ADT43990	Adt43990 Bacterial	c 156	8	1.5	711	4	AAH88245	AaH88245 CNS disor
C 84	9	1.7	1373	11	ANM80941	Aan80941 Encodes V	c 157	8	1.5	729	8	ACA25742	AcA25742 Prokaryot
C 85	9	1.7	1700	10	ADB59088	Adb59088 Toxicity-	c 158	8	1.5	747	13	ADS62116	AdS62116 Bacterial
C 86	9	1.7	1700	10	ADB53647	Adb53647 Primary r	159	8	1.5	760	5	AAH64846	AaH64846 Human sec
C 87	9	1.7	1700	10	ABT42420	Abt42420 Toxicity	160	8	1.5	762	5	AAH64958	AaH64958 Human sec
C 88	9	1.7	1700	12	ADP72853	Adp72853 Renal tox	c 161	8	1.5	777	11	ABD00520	Abd00520 Klebsiell
C 89	9	1.7	2031	4	ABL26653	Abi26653 Drosophil	162	8	1.5	785	3	AAF22331	AaF22331 Human sec
C 90	9	1.7	2316	10	ADB59023	Adb59023 Toxicity-	163	8	1.5	807	11	ABD06455	Abd06455 Pseudomon
C 91	9	1.7	2702	4	ABL25006	Abi25006 Drosophil	164	8	1.5	828	6	ABQ31613	Abq31613 Oligonucl
C 92	9	1.7	6028	4	ABL03360	Abi03360 Drosophil	c 165	8	1.5	834	6	ABQ31612	Abq31612 Oligonucl
C 93	9	1.7	7125	4	ABL26652	Abi26652 Drosophil	c 166	8	1.5	838	12	ADL03259	AdL03259 DNA encod
C 94	9	1.7	51961	10	ADC20666	Adc20666 Human sec	c 167	8	1.5	844	13	ADQ83727	AdQ83727 Human tum
C 95	9	1.7	51961	10	ABT18905	Abt18905 Human sec	c 168	8	1.5	874	6	ABQ33994	Abq33994 Oligonucl
C 96	9	1.7	51961	10	ABZ67488	Abz67488 Human sec	169	8	1.5	874	6	ABQ33995	Abq33995 Oligonucl
C 97	9	1.7	247544	12	ADQ59419	Adq59419 Human can	170	8	1.5	887	6	AAI67947	AaI67947 Human CCR
C 98	9	1.7	252907	13	ABD32694	Abd32694 Human can	171	8	1.5	896	4	AAK83809	AaK83809 Human imm
C 99	8	1.5	60	6	ABN47103	Abn47103 Human spl	172	8	1.5	896	4	AAK83808	AaK83808 Human imm
C 100	8	1.5	144	6	ABQ90618	Abq90618 M. capsul	173	8	1.5	921	4	AAK71739	AaK71739 Human imm
C 101	8	1.5	168	13	ADS04142	AdS04142 Staphyloc	174	8	1.5	926	3	AAK77321	AaK77321 Human ORF
C 102	8	1.5	289	5	ABA14613	AbA14613 Human ner	175	8	1.5	951	3	AAK76669	AaK76669 Human ORF
C 103	8	1.5	318	2	AT07025	At07025 Immunogen	c 176	8	1.5	999	13	ADS45852	AdS45852 Bacterial
C 104	8	1.5	321	13	ADR63777	Adr63777 Cotton cD	177	8	1.5	1011	5	AAK87919	AaK87919 DNA encod
C 105	8	1.5	330	11	ABD04894	Abd04894 Pseudomon	178	8	1.5	1011	5	AAK85673	AaK85673 DNA encod
C 106	8	1.5	331	4	AAK90500	AaK90500 Human dig	c 179	8	1.5	1057	3	AAF13375	AaF13375 Aspergill
C 107	8	1.5	341	5	ABA14397	AbA14397 Human ner	180	8	1.5	1062	4	AAH52620	AaH52620 S. epider
C 108	8	1.5	365	5	ABA11025	AbA11025 Human ner	c 181	8	1.5	1085	4	AAH11110	AaH11110 Human sma
C 109	8	1.5	372	4	AAI10274	AAI10274 Probe #20	c 182	8	1.5	1085	8	ABX76387	AbX76387 Lung canc
C 110	8	1.5	372	4	ABA51911	ABA51911 Human foe	c 183	8	1.5	1085	8	ABX76303	AbX76303 Lung canc
C 111	8	1.5	372	4	AAI31521	AAI31521 Probe #20	c 184	8	1.5	1085	11	ADN38995	AdN38995 Cancer/an
C 112	8	1.5	372	4	ABR21729	ABR21729 Probe #19	c 185	8	1.5	1087	4	RAK52388	RaK52388 Human pol
C 113	8	1.5	372	4	AAK25646	AAK25646 Human bon	c 186	8	1.5	1103	12	ADO02848	AdO02848 Corn orth
C 114	8	1.5	372	4	AAK00206	AAK00206 Human bra	c 187	8	1.5	1116	4	AAK53268	AaK53268 Human pol
C 115	8	1.5	372	4	ABS25225	ABS25225 Human liv	c 188	8	1.5	1119	10	ADB80216	AdB80216 Mycobacte
C 116	8	1.5	372	5	AAI00211	AAI00211 Probe #20	c 189	8	1.5	1126	4	AAK52284	AaK52284 Human pol
C 117	8	1.5	372	6	ABS00217	ABS00217 Human gen	c 190	8	1.5	1140	2	AAV41733	AaV41733 Codon-Opt
C 118	8	1.5	383	10	ADD33833	Add33833 Mouse mit	c 191	8	1.5	1181	10	AAK63195	AaK63195 Human DNA
C 119	8	1.5	385	6	ABN18111	Abn18111 Human ORF	c 192	8	1.5	1181	10	AAK63159	AaK63159 Human SRY
C 120	8	1.5	390	13	ABD32839	Abd32839 Human can	c 193	8	1.5	1181	10	AAK62795	AaK62795 Human KIA
C 121	8	1.5	395	6	AAK61666	AAK61666 Lung smal	c 194	8	1.5	1181	10	AAK62760	AaK62760 Human SRY
C 122	8	1.5	429	8	ABX37053	ABX37053 Bovine ES	c 195	8	1.5	1181	11	ADP88255	AdP88255 Lung canc
C 123	8	1.5	430	4	AAI90901	AAI90901 Human pol	c 196	8	1.5	1181	11	ADP88291	AdP88291 Human dia
C 124	8	1.5	438	8	ABX4619	ABX4619 Bovine ES	c 197	8	1.5	1191	13	ADT45352	AdT45352 Bacterial
C 125	8	1.5	441	12	ADN12665	Adn12665 Human pro	c 198	8	1.5	1197	5	AAK83420	AaK83420 DNA encod
C 126	8	1.5	499	10	ADF61849	Adf61849 Human ald	c 199	8	1.5	1197	5	AAK83419	AaK83419 DNA encod
C 127	8	1.5	511	6	ABQ27978	Abq27978 Oligonucl	c 200	8	1.5	1212	11	ABD06553	Abd06553 Pseudomon
C 128	8	1.5	511	6	ABQ27979	Abq27979 Oligonucl	c 201	8	1.5	1367	4	AAI61282	AaI61282 Human pol
C 129	8	1.5	536	10	ADD01461	Add01461 Rat TCH17	c 202	8	1.5	1395	10	ADC92228	AdC92228 E. faeciu
C 130	8	1.5	552	4	AAH12037	AaH12037 Human CDN	c 203	8	1.5	1440	13	ADT48613	AdT48613 Bacterial
C 131	8	1.5	553	12	ADQ92266	AdQ92266 Human aut	c 204	8	1.5	1473	11	ABD11075	Abd11075 Pseudomon
C 132	8	1.5	554	4	AAI18343	AAI18343 Probe #82	c 205	8	1.5	1501	4	AAK53372	AaK53372 Human pol
C 133	8	1.5	554	4	ABA63344	ABA63344 Human foe	c 206	8	1.5	1506	11	ABD06421	Abd06421 Pseudomon
C 134	8	1.5	554	4	AAI43458	AAI43458 Probe #12	c 207	8	1.5	1520	4	AAH16340	AaH16340 Human CDN
C 135	8	1.5	554	4	ABA30548	ABA30548 Probe #90	c 208	8	1.5	1530	6	ABL52216	AbL52216 Human pho
C 136	8	1.5	554	4	AAK37586	AAK37586 Human bon	c 209	8	1.5	1530	6	ABL52276	AbL52276 Human pho
C 137	8	1.5	554	4	AAK11885	AAK11885 Human bra	c 210	8	1.5	1575	4	ABL26651	AbL26651 Drosophil
C 138	8	1.5	554	4	ABS37247	ABS37247 Human liv	c 211	8	1.5	1584	5	AAK572837	AaK572837 DNA encod
C 139	8	1.5	554	6	ABS11572	ABS11572 Human gen	c 212	8	1.5	1602	6	ABZ13052	AbZ13052 Arabidops
C 140	8	1.5	558	4	AAI17420	AAI17420 Probe #73	c 213	8	1.5	1641	4	ABL18113	AbL18113 Drosophil
C 141	8	1.5	558	4	ABA62344	ABA62344 Human foe	c 214	8	1.5	1653	9	ADB07811	AdB07811 Allicooc
C 142	8	1.5	558	4	AAI42322	AAI42322 Probe #11	c 215	8	1.5	1653	9	ADB07809	AdB07809 Allicooc
C 143	8	1.5	558	4	ABA29685	ABA29685 Probe #81	c 216	8	1.5	1653	12	ADJ27080	AdJ27080 Allicooc
C 144	8	1.5	558	4	AAK36564	AAK36564 Human bon	c 217	8	1.5	1701	10	ADJ95071	AdJ95071 Novel NOV
C 145	8	1.5	558	4	AAK10678	AAK10678 Human bra	c 218	8	1.5	1716	4	AAI59496	AaI59496 Human pol
C 146	8	1.5	558	4	ABS36218	ABS36218 Human liv	c 219	8	1.5	1716	5	AAK64547	AaK64547 DNA encod
C 147	8	1.5	558	6	ABS10561	ABS10561 Human gen	c 220	8	1.5	1761	3	AAK74309	AaK74309 Human sec
C 148	8	1.5	566	5	AAK37568	AAK37568 Human bon	c 221	8	1.5	1767	10	ADD01393	AdD01393 Human TCH
C 149	8	1.5	587	4	AAK37568	AAK37568 DNA encod	c 222	8	1.5	1786	4	ABL07417	AbL07417 Drosophil
C 150	8	1.5	587	4	AAK11857	AAK11857 Human bra	c 223	8	1.5	1798	10	ADB75409	AdB75409 Prostate
C 151	8	1.5	633	6	ABQ47239	Abq47239 Oligonucl	c 224	8	1.5	1798	12	ADM67105	AdM67105 Human hom

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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 13:42:45 ; Search time 6823.47 Seconds  
(without alignments)  
3806.273 Million cell updates/sec

Title: US-09-776-865-2

Perfect score: 536

Sequence: 1 MAAGAMTPRPVQPARPGF.....LFAKGEVQNWALNDHGHHRH 536

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Word size: 1

Total number of hits satisfying chosen parameters: 9408497

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

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-Q=/cgn2 1/USPTO spool/US09776865/runat 08072005 175612 23689/app query.fasta 1.1358  
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEXT=7

Database :

GenEmbl:\*

1: gb\_ba:\*  
2: gb\_hlg:\*  
3: gb\_in:\*  
4: gb\_om:\*  
5: gb\_ov:\*  
6: gb\_pat:\*  
7: gb\_ph:\*  
8: gb\_pl:\*  
9: gb\_pr:\*  
10: gb\_ro:\*  
11: gb\_scs:\*  
12: gb\_sy:\*  
13: gb\_un:\*  
14: gb\_vl:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	536	100.0	2930	6	BD248129
2	536	100.0	2930	6	AX207624
3	536	100.0	2930	9	AF244577
4	529	98.7	2512	6	AX138494

5	529	98.7	2512	9	HSA387747
6	529	98.7	3362	6	CQ412026
7	522	97.4	3292	9	BC020961
8	522	97.4	3329	6	CQ776623
9	514	95.9	2602	6	BD248125
10	300	56.0	2712	6	CQ783928
11	300	56.0	2712	6	BD127905
12	300	56.0	2712	9	AK075320
13	264	49.3	853	6	CQ782221
14	264	49.3	853	6	BD126930
15	200	37.3	838	6	CQ780684
16	200	37.3	838	6	BD125393
17	169	31.5	1587	9	AK025880
18	162	30.2	494	6	CQ405758
19	151	28.2	498	6	CQ392975
20	151	28.2	498	6	CQ399373
21	124	23.1	375	6	AX118967
22	119	22.2	1229	6	AR380115
23	108	20.1	349	6	CQ420997
24	94	17.5	752	6	CQ720578
25	92	17.2	2006	9	AK028921
26	87	16.2	264	6	CQ429871
27	78	14.6	113202	9	HSJ397H23
28	78	14.6	149597	2	AC034271
29	69	12.9	217	6	AR270039
30	66	12.3	251	11	BV198823
31	66	12.3	185712	2	AC150017
32	65	12.1	199	6	AX341073
33	65	12.1	149597	2	AC034271
34	65	12.1	163577	9	AL590428
35	61	11.4	1485	6	BD248130
36	61	11.4	2844	4	AF244578
37	61	11.4	2844	6	BD248126
38	61	11.4	2844	6	AX207626
39	56	10.4	194653	2	AC150717
40	54	10.1	157749	2	AC025535
41	51	9.5	187017	2	AC150839
42	45	8.4	56641	2	AL138833
43	43	8.0	233392	2	AC150504
44	42	7.8	228433	10	AC097023
45	37	6.9	187017	2	AC150839
46	37	6.9	188302	2	AC150022
47	35	6.5	3121	5	AJ719840
48	34	6.3	3152	10	BC058785
49	32	6.0	144738	2	AC112668
50	30	5.6	1485	6	BD248131
51	27	5.0	137509	5	BX323884
52	27	5.0	228860	2	CR354610
53	11	2.1	838	5	AY559247
54	11	2.1	1299	6	CQ725168
55	11	2.1	1504	6	CQ717465
56	11	2.1	1549	6	AX336195
57	11	2.1	1549	6	AX336653
58	11	2.1	1549	9	HSNAP11
59	11	2.1	1720	3	AK116431
60	11	2.1	1794	9	HMAEF14
61	11	2.1	1963	3	AK114957
62	11	2.1	2019	3	AK114801
63	11	2.1	2019	9	BC069629
64	11	2.1	2020	9	BC069640
65	11	2.1	2020	9	BC069646
66	11	2.1	2528	6	AX709538
67	11	2.1	2528	6	AX743498
68	11	2.1	2528	10	AF324864
69	11	2.1	3728	10	BC038375
70	11	2.1	3946	6	AX709532
71	11	2.1	3946	6	AX743492
72	11	2.1	3946	9	AB032435
73	11	2.1	3982	6	AX700122
74	11	2.1	3982	6	AX709534
75	11	2.1	3982	6	AX743494
76	11	2.1	3982	10	AF271235
77	11	2.1	64356	2	AC090586

c	78	11	2.1	123847	2	AC118880	AC118880 Rattus no	c	151	9	1.7	67671	2	AC102113	AC102113 Mus muscu
c	79	11	2.1	143063	9	AC040936	AC040936 Homo sapi	c	152	9	1.7	70714	2	AC101499	AC101499 Mus muscu
c	80	11	2.1	146479	9	AC119499	Rattus no	c	153	9	1.7	86419	3	AC004345	AC004345 Drosophi
c	81	11	2.1	146515	9	AC104009	Homo sapi	c	154	9	1.7	90707	8	AC027032	AC027032 Arabidops
c	82	11	2.1	201957	2	AC113306	Mus muscu	c	155	9	1.7	96262	8	AC024226	AC024226 Genomic S
c	83	11	2.1	215841	2	AC016904	Homo sapi	c	156	9	1.7	101601	9	AC079034	Homo sapi
c	84	11	2.1	243860	2	AC114710	Rattus no	c	157	9	1.7	107893	5	EX276180	EX276180 Zebrafish
c	85	11	2.1	323443	2	AC145086	AC145086 Mus muscu	c	158	9	1.7	109138	9	AC104084	Homo sapi
c	86	10	1.9	448	9	F362489S08	AF362500 Homo sapi	c	159	9	1.7	110000	2	AC120236	Continuation (2 of
c	87	10	1.9	657	6	AX415590	BC018306 Mus muscu	c	160	9	1.7	110000	2	AF006501_08	Continuation (9 of
c	88	10	1.9	1874	10	BC018306	BC018306 Mus muscu	c	161	9	1.7	110000	2	AF006501_09	Continuation (10 of
c	89	10	1.9	2266	6	AR036570	AR036570 Sequence	c	162	9	1.7	110482	2	AC018326	AC018326 Drosophi
c	90	10	1.9	2266	6	BD084119	BD084119 Polymorph	c	163	9	1.7	110900	9	HSJ392M17	AL049843 Human DNA
c	91	10	1.9	2270	6	CQ715838	CQ715838 Sequence	c	164	9	1.7	115602	9	HS1118D24	AL031312 Human DNA
c	92	10	1.9	2281	6	AX410807	AX410807 Sequence	c	165	9	1.7	119199	2	AP003812	AP003812 Oryza sat
c	93	10	1.9	2281	9	HSU90544	U90544 Human sodiu	c	166	9	1.7	121242	9	AC126564	AC126564 Homo sapi
c	94	10	1.9	6359	8	YSCY164A	M88172 Saccharomyc	c	167	9	1.7	123477	8	AC112209	AC112209 Oryza sat
c	95	10	1.9	19371	3	CEK1069	Z36282 Caenorhabdi	c	168	9	1.7	127338	8	AC134048	AC134048 Oryza sat
c	96	10	1.9	28872	3	CEU707A5	Z48055 Caenorhabdi	c	169	9	1.7	129732	2	AC140867	AC140867 Homo sapi
c	97	10	1.9	29987	8	SC8156	Z49260 S.cerevisia	c	170	9	1.7	132703	8	CNS08CBT	AL928756 Oryza sat
c	98	10	1.9	80091	9	AC094088	AC094088 Homo sapi	c	171	9	1.7	135750	10	AL928859	AL928859 Mouse DNA
c	99	10	1.9	83412	2	AC133611	AC133611 Rattus no	c	172	9	1.7	137218	2	QSTJN0037	AL606617 Oryza sat
c	100	10	1.9	84707	6	AX417037	AX417037 Sequence	c	173	9	1.7	138780	8	AP004344	AP004344 Oryza sat
c	101	10	1.9	136646	9	AL138726	AL138726 Human DNA	c	174	9	1.7	143432	2	AC115852	AC115852 Mus muscu
c	102	10	1.9	148975	2	AC012145	AC012145 Homo sapi	c	175	9	1.7	150976	8	AP003442	AP003442 Oryza sat
c	103	10	1.9	167098	2	AC023952	AC023952 Homo sapi	c	176	9	1.7	151448	2	AC074261	AC074261 Homo sapi
c	104	10	1.9	178044	2	AC121663	AC121663 Rattus no	c	177	9	1.7	153904	2	EX510650	EX510650 Homo sapi
c	105	10	1.9	183698	10	AL606464	AL606464 Mouse DNA	c	178	9	1.7	155643	8	AP000391	AP000391 Oryza sat
c	106	10	1.9	186062	10	AL590388	AL590388 Mouse DNA	c	179	9	1.7	155815	2	AC018774	AC018774 Homo sapi
c	107	10	1.9	209876	2	AL627315	AL627315 Mus muscu	c	180	9	1.7	157848	8	AP005744	AP005744 Oryza sat
c	108	10	1.9	209876	6	AL627315	AL627315 Mus muscu	c	181	9	1.7	158810	8	AP006266	AP006266 Oryza sat
c	109	10	1.9	235033	6	BD084121	BD084121 Polymorph	c	182	9	1.7	161841	2	AC117653	AC117653 Mus muscu
c	110	10	1.9	237326	6	BD084122	BD084122 Polymorph	c	183	9	1.7	163627	2	AC135031	AC135031 Rattus no
c	111	10	1.9	240774	2	AC130391	AC130391 Rattus no	c	184	9	1.7	164518	2	AC122778	AC122778 Mus muscu
c	112	10	1.9	246240	6	AR036572	AR036572 Sequence	c	185	9	1.7	167663	9	AC093854	AC093854 Homo sapi
c	113	10	1.9	246240	6	AR036573	AR036573 Sequence	c	186	9	1.7	168637	2	AC018963	AC018963 Homo sapi
c	114	10	1.9	246240	6	AR036574	AR036574 Sequence	c	187	9	1.7	168721	10	AC125085	AC125085 Mus muscu
c	115	10	1.9	246282	9	HSU91328	U91328 Human heredi	c	188	9	1.7	173135	2	AC111740	AC111740 Rattus no
c	116	10	1.9	305050	1	AL596173	AL596173 Listeria	c	189	9	1.7	173373	3	AC099016	AC099016 Drosophi
c	117	10	1.9	349980	6	AX417036	AX417036 Sequence	c	190	9	1.7	173417	10	AL607143	AL607143 Mouse DNA
c	118	10	1.9	349980	6	AX417048	AX417048 Sequence	c	191	9	1.7	173422	3	AC007467	AC007467 Drosophi
c	119	9	1.7	28	6	CQ778224	CQ778224 Sequence	c	192	9	1.7	176082	3	AC007144	AC007144 Drosophi
c	120	9	1.7	464	11	G52591	G52591 SHGC-81575	c	193	9	1.7	176733	9	AC092850	AC092850 Homo sapi
c	121	9	1.7	495	10	F361762S09	AF361773 Mus muscu	c	194	9	1.7	178091	2	AC110894	AC110894 Mus muscu
c	122	9	1.7	513	8	AF318651	AF318651 Salsola z	c	195	9	1.7	178471	9	AC093583	AC093583 Homo sapi
c	123	9	1.7	699	6	AX364494	AX364494 Sequence	c	196	9	1.7	180201	5	EX548064	EX548064 Zebrafish
c	124	9	1.7	880	8	AY275680	AY275680 Hevea bra	c	197	9	1.7	180718	9	AL596087	AL596087 Human DNA
c	125	9	1.7	960	5	CR733177	CR733177 Gallus ga	c	198	9	1.7	182501	2	AC011221	AC011221 Homo sapi
c	126	9	1.7	1432	10	AY103171	AY103171 Rattus no	c	199	9	1.7	184427	14	EHVU20824	U20824 Equine herp
c	127	9	1.7	1684	10	BC078710	BC078710 Rattus no	c	200	9	1.7	184798	2	AC139981	AC139981 Rattus no
c	128	9	1.7	1700	6	AX827782	AX827782 Sequence	c	201	9	1.7	184866	10	AL611934	AL611934 Mouse DNA
c	129	9	1.7	1700	10	RNU28504	U28504 Rattus norv	c	202	9	1.7	186047	9	AC074257	AC074257 Homo sapi
c	130	9	1.7	1848	10	BC078748	BC078748 Rattus no	c	203	9	1.7	186208	10	AL626778	AL626778 Mouse DNA
c	131	9	1.7	1885	10	MNPF1CT	X77241 M.musculus	c	204	9	1.7	187214	2	AC121384	AC121384 Rattus no
c	132	9	1.7	2004	6	BC013445	BC013445 Mus muscu	c	205	9	1.7	187877	2	AC023251	AC023251 Homo sapi
c	133	9	1.7	2031	6	CQ609462	CQ609462 Sequence	c	206	9	1.7	189155	2	AC143324	AC143324 Homo sapi
c	134	9	1.7	2229	10	AB025224	AB025224 Rattus no	c	207	9	1.7	189363	9	AC126603	AC126603 Homo sapi
c	135	9	1.7	2316	10	AB025223	AB025223 Rattus no	c	208	9	1.7	189582	2	AC142534	AC142534 Homo sapi
c	136	9	1.7	2700	14	AF238232	AF238232 Bovine ad	c	209	9	1.7	189908	2	AC141592	AC141592 Homo sapi
c	137	9	1.7	2702	6	CQ606992	CQ606992 Sequence	c	210	9	1.7	190198	2	EX571941	EX571941 Danilo rer
c	138	9	1.7	3021	3	AY119484	AY119484 Drosophi	c	211	9	1.7	191919	9	AC016770	AC016770 Homo sapi
c	139	9	1.7	5000	14	AF032994	AF032994 Trichoplu	c	212	9	1.7	192358	3	AC099028	AC099028 Drosophi
c	140	9	1.7	5111	10	AF308433S1	AF308433 Mus muscu	c	213	9	1.7	194106	10	AC129325	AC129325 Mus muscu
c	141	9	1.7	6028	6	CQ574523	CQ574523 Sequence	c	214	9	1.7	196465	2	AC143322	AC143322 Homo sapi
c	142	9	1.7	7125	6	CQ609461	CQ609461 Sequence	c	215	9	1.7	196560	2	AC132652	AC132652 Rattus no
c	143	9	1.7	11172	10	MMU19755	U19755 Mus domesti	c	216	9	1.7	200389	9	AC134678	AC134678 Homo sapi
c	144	9	1.7	14433	1	AE001203	AE001203 Treponema	c	217	9	1.7	201376	2	EX470152	EX470152 Mus muscu
c	145	9	1.7	26206	10	MMU320524	AJ320524 Puumama	c	218	9	1.7	201684	2	AC108431	AC108431 Mus muscu
c	146	9	1.7	43219	2	AC100163	AC100163 Mus muscu	c	219	9	1.7	201805	10	AL606466	AL606466 Mouse DNA
c	147	9	1.7	54656	2	AC120611	AC120611 Rattus no	c	220	9	1.7	203668	2	AC084411	AC084411 Mus muscu
c	148	9	1.7	55197	2	AC017529	AC017529 Drosophi	c	221	9	1.7	203961	9	AC011374	AC011374 Homo sapi
c	149	9	1.7	62172	9	AC140118	AC140118 Homo sapi	c	222	9	1.7	208661	10	AC072048	AC072048 Mus muscu
c	150	9	1.7	62676	2	AC072047	AC072047 Arabidops	c	223	9	1.7	211013	2	AC122380	AC122380 Mus muscu

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OM protein - nucleic search, using frame\_plus\_p2n model.

Run on: July 9, 2005, 16:46:21 ; Search time 4589.43 Seconds

(without alignments)  
4105.478 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGEGSDRT.....LPAKGEVQNAISDHQGRN 495

Scoring table:

OLIGO	Xgapop 60.0	Xgapext 60.0
	Ygapop 60.0	Ygapext 60.0
	Fgapop 6.0	Fgapext 7.0
	Delop 6.0	Delext 7.0

Searched: 34239544 seqs, 19032134700 residues

Word size: 1

Total number of hits satisfying chosen parameters: 68477535

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters:

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-DB=EST -QFMT=fastap -SUFFIX=oligo.rst -MINMATCH=0.1 -LOOPEXT=0 -LOOPEXT=0  
-UNITS=bits -START=1 -END=1 -MATRIX=oligo -TRANS=human40.cdi -LIST=1000  
-LOCALIGN=200 -THR SCORE=quality -THR MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=ptc  
-NORM=ext -HEADSIZE=500 -MINLEN=0 -MAXLEN=2000000000  
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-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=60 -XGAPEXT=60 -FGAPOPOP=6  
-FGAPEXT=7 -YGAPOP=60 -YGAPEXT=60 -DELOP=6 -DELEX=7

Database :

EST:\*  
1: gb\_est1:\*  
2: gb\_est2:\*  
3: gb\_hic:\*  
4: gb\_est3:\*  
5: gb\_est4:\*  
6: gb\_est5:\*  
7: gb\_est6:\*  
8: gb\_gsa1:\*  
9: gb\_gsa2:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	168	33.9	721	7	CK833565 4057467 B
2	168	33.9	737	7	CK833737 4057771 B
3	162	32.7	700	7	CN786597 4120614 B
4	94	19.0	758	6	CB166094 XKE603014
5	64	12.9	947	7	C0579484 ILLUMIGEN
6	61	12.3	432	1	AA258513 zr59d01.r
7	61	12.3	537	6	CB158910 K-EST0218
8	61	12.3	537	6	CB158929 K-EST0219
9	61	12.3	570	5	BP274537 BP274537

10	61	12.3	581	5	BP252687
11	61	12.3	581	5	BP297030
12	61	12.3	605	5	EX479639
13	61	12.3	626	5	BF676817
14	61	12.3	630	6	CB138761
15	61	12.3	700	2	BE869819
16	61	12.3	913	5	EX348297
17	61	12.3	3189	3	CF618872
18	57	11.5	633	4	BE817031
19	50	10.1	848	9	CR812709
20	44	8.9	949	7	CF412264
21	43	8.7	901	6	CD106410
22	40	8.1	817	9	CR810037
23	38	7.7	400	6	CB782262
24	36	7.3	321	2	AW531337
25	35	7.1	301	7	NJ1254
26	35	7.1	367	7	H63685
27	35	7.1	770	5	EX674896
28	34	6.9	649	1	AJ734277
29	34	6.9	773	1	AJ734267
30	33	6.7	428	6	CB794359
31	33	6.7	429	2	BF563945
32	32	6.5	554	5	BP220609
33	32	6.5	582	5	BP302998
34	32	6.5	616	5	BP238694
35	32	6.5	663	7	CV023522
36	32	6.5	708	7	CR763802
37	32	6.5	736	4	BI860521
38	32	6.5	740	6	CB317739
39	32	6.5	754	4	BI907284
40	32	6.5	893	4	BG541099
41	32	6.5	1038	5	EX439809
42	32	6.5	1051	1	AL550137
43	32	6.5	1059	5	EX425026
44	32	6.5	3202	3	AK029102
45	31	6.3	611	1	AJ734276
46	30	6.1	429	8	B2877289
47	30	6.1	571	5	BP221449
48	29	5.9	348	9	CG498267
49	29	5.9	436	6	BY651956
50	29	5.9	566	1	AU279688
51	29	5.9	579	5	BP344739
52	29	5.9	580	5	BP285113
53	29	5.9	581	5	BP281761
54	29	5.9	581	5	BP285186
55	29	5.9	581	5	BP298092
56	29	5.9	582	5	BP287215
57	29	5.9	582	5	BP287958
58	29	5.9	582	5	BP288187
59	29	5.9	582	5	BP367879
60	29	5.9	583	4	BM838178
61	29	5.9	584	5	BP288606
62	29	5.9	602	5	BP349262
63	28	5.7	279	7	CR462700
64	28	5.7	495	6	CB129218
65	28	5.7	518	1	AA833297
66	28	5.7	658	4	BI851890
67	28	5.7	1241	5	BU504522
68	27	5.5	498	4	BU504522
69	27	5.5	509	4	BU699380
70	27	5.5	618	4	BU696202
71	27	5.5	620	4	BU699327
72	27	5.5	776	5	EX882862
73	25	5.1	506	6	CB161355
74	25	5.1	689	4	BQ400588
75	25	5.1	729	4	BF971208
76	25	5.1	787	4	BI98416
77	24	4.8	524	5	BY478871
78	24	4.8	599	4	BU520485
79	24	4.8	609	4	BU692199
80	23	4.6	565	6	CB365128
81	23	4.6	454	7	CK687033
82	23	4.6	620	7	CF417013



83	23	4.6	686	7	CK690892	ZF101-P00	156	14	2.8	647	7	CR427276
84	23	4.6	731	7	CK696626	ZF101-P00	157	14	2.8	721	4	BJ060500
85	23	4.6	784	7	CK024678	AGENCOURT	158	14	2.8	770	7	CF289959
86	23	4.6	882	7	CN178455	AGENCOURT	159	14	2.8	861	5	BU907838
87	22	4.4	690	1	AJ447466	AJ447466	160	14	2.8	886	5	BO737435
88	22	4.4	738	1	AJ455947	AJ455947	161	14	2.8	895	2	BF539146
89	22	4.4	810	1	AJ455169	AJ455169	c 162	14	2.8	1116	8	CC295340
90	21	4.2	465	5	BQ322417	RCS-CS002	163	13	2.6	239	8	BY179630
91	21	4.2	610	1	AL792191	AL792191	164	13	2.6	288	7	CR775730
92	21	4.2	772	2	BF123545	601759862	165	13	2.6	596	6	CB505018
93	21	4.2	2674	3	AK014522	Mus muscu	166	12	2.4	331	5	BY317931
94	20	4.0	334	1	AJ734268	AJ734268	c 167	12	2.4	394	8	AQ224962
95	20	4.0	445	2	BR37421	601230485	c 168	12	2.4	486	8	BM0770
96	20	4.0	589	9	CK035573	Forward s	c 169	12	2.4	550	4	BI355213
97	20	4.0	587	5	BU127798	603112964	170	12	2.4	852	5	BP444752
98	20	4.0	618	7	CF170114	B0822G02-	171	12	2.4	943	9	CN80352N
99	20	4.0	645	2	BR537525	BR537525	172	12	2.4	1007	4	BM804862
100	20	4.0	711	4	BI697765	603346858	173	12	2.4	1073	2	BF537689
101	20	4.0	730	6	CA327442	UI-M-FY0-	174	12	2.4	3270	3	AK050277
102	20	4.0	785	7	CF285351	AGENCOURT	175	12	2.4	3302	3	AK050184
103	20	4.0	791	7	CV110989	AGENCOURT	176	12	2.4	4630	3	AK040717
104	20	4.0	801	4	BI661062	603304362	177	11	2.2	238	6	CD730851
105	20	4.0	813	7	CF618610	AGENCOURT	c 178	11	2.2	387	8	AZ772115
106	20	4.0	831	3	AK087395	Mus muscu	179	11	2.2	472	5	BY240979
107	19	3.8	470	5	BQ345391	MR4-NT014	180	11	2.2	485	6	CB727195
108	18	3.6	311	5	BY190277	BY190277	c 181	11	2.2	548	5	BQ366104
109	18	3.6	345	5	BY138011	BY138011	182	11	2.2	581	5	BP361755
110	18	3.6	349	6	BY793266	BY793266	183	11	2.2	582	5	BP309703
111	18	3.6	355	5	BY196504	BY196504	184	11	2.2	596	6	CB583897
112	18	3.6	423	5	BY274305	BY274305	185	11	2.2	605	7	CF534235
113	18	3.6	426	5	BY284055	BY284055	186	11	2.2	634	5	BU611855
114	18	3.6	427	5	BY278620	BY278620	187	11	2.2	635	6	BY723745
115	18	3.6	436	5	BY246932	BY246932	188	11	2.2	646	9	BR484D4T
116	18	3.6	440	5	BY031138	BY031138	189	11	2.2	648	5	BW3331471
117	18	3.6	447	6	CB747168	AMGNNUC:C	190	11	2.2	649	5	BW328845
118	18	3.6	457	5	BY241444	BY241444	191	11	2.2	652	5	CF735479
119	18	3.6	471	5	BY245489	BY245489	192	11	2.2	654	7	BU611275
120	18	3.6	479	2	BB862822	BB862822	193	11	2.2	656	6	CB247147
121	18	3.6	482	6	CB728076	AMGNNUC:C	194	11	2.2	669	5	BW347197
122	18	3.6	494	5	BY254429	BY254429	c 195	11	2.2	673	5	BW262098
123	18	3.6	499	1	AL597124	DFZ2p313H	c 196	11	2.2	688	7	CN154791
124	18	3.6	573	9	CG533752	OST119370	197	11	2.2	688	7	CN156898
125	18	3.6	579	5	BP333962	BP333962	198	11	2.2	707	5	BU364515
126	18	3.6	582	5	BP285070	BP285070	199	11	2.2	713	7	CK420161
127	18	3.6	629	2	BB664731	BB664731	200	11	2.2	728	5	BW429788
128	18	3.6	661	4	BG400668	BG400668	201	11	2.2	729	7	CK420266
129	18	3.6	675	2	BE867611	BE867611	202	11	2.2	790	5	BQ769444
130	18	3.6	682	2	BB633552	BB633552	203	11	2.2	806	4	BI730182
131	18	3.6	736	5	BP223105	BP223105	c 204	11	2.2	866	7	CK413667
132	18	3.6	904	2	BG124137	BG124137	205	11	2.2	909	9	CNS04M9J
133	18	3.6	965	4	BG290613	BG290613	c 206	11	2.2	951	5	BQ959761
134	18	3.6	1100	4	BG866603	BG866603	207	11	2.2	1024	9	CNS03MJZ
135	18	3.6	1165	5	BQ715048	BQ715048	208	11	2.2	1716	9	AY415645
136	17	3.4	425	6	CB742771	AMGNNUC:C	209	11	2.2	1749	9	AY415644
137	16	3.2	301	6	CB700764	AMGNNUC:C	210	11	2.2	1749	9	AY415646
138	16	3.2	343	6	CB693459	AMGNNUC:C	211	11	2.2	2720	3	AK043753
139	16	3.2	412	6	BY645660	BY645660	212	11	2.2	4078	3	AA045409
140	16	3.2	423	9	CG653532	OST419032	c 213	10	2.0	55	1	AA625063
141	16	3.2	449	6	CB742771	AMGNNUC:C	c 214	10	2.0	343	6	CB602389
142	16	3.2	495	6	BB731294	AMGNNUC:C	215	10	2.0	358	7	CB626259
143	16	3.2	694	8	BZ922735	BZ922735	216	10	2.0	436	7	CO337940
144	15	3.0	485	4	BI041275	MR4-NT014	217	10	2.0	464	2	BE722554
145	15	3.0	575	4	BJ692156	BJ692156	c 218	10	2.0	403	7	CU170831
146	15	3.0	603	4	BJ703130	BJ703130	c 219	10	2.0	414	9	CG565748
147	15	3.0	752	2	BR876444	BR876444	220	10	2.0	446	7	CO337940
148	14	2.8	344	5	BY021590	BY021590	221	10	2.0	436	7	BF502816
149	14	2.8	433	6	CB760265	CB760265	222	10	2.0	464	2	BE722554
150	14	2.8	560	4	BJ032567	BJ032567	223	10	2.0	480	1	AA104847
151	14	2.8	587	4	BM179717	BM179717	224	10	2.0	485	5	BY565707
152	14	2.8	630	2	BB610013	BB610013	225	10	2.0	495	5	BX569549
153	14	2.8	632	4	BJ031727	BJ031727	226	10	2.0	525	2	BE722641
154	14	2.8	636	4	BJ617191	BJ617191	c 227	10	2.0	531	5	BX567171
155	14	2.8	647	4	BI445533	dae81h09.	228	10	2.0	540	1	AA106229

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OM protein - nucleic search, using frame\_plus\_p2n model

Run on: July 9, 2005, 21:49:36 ; Search time 840.204 Seconds  
(without alignments)  
3698.824 Million cell updates/sec

Title: US-09-776-865-4

Perfect score: 495

Sequence: 1 MKSPVSLAPSDGEGSDRT.....LFAKGEVQNAISDHQCHRN 495

Scoring table:

OLIGO  
Xgapop 60.0 , Xgapext 60.0  
Ygapop 60.0 , Ygapext 60.0  
Fgapop 6.0 , Fgapext 7.0  
Delop 6.0 , Delext 7.0

Searched: 6330943 seqs, 3139157217 residues

Word size: 1

Total number of hits satisfying chosen parameters: 12650797

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 1000 summaries

Command line parameters: -DEV=xlh

-MODEL=frame+p2n.model -DEV=xlh  
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-DB=Published Applications NA -QFMT=fastap -SUFFIX=oligo.rnpb -MINMATCH=0.1  
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-TRANS=human40.cdi -LIST=1000 -DOCLIGN=200 -THR SCORE=quality -THR\_MIN=1  
-ALIGN=15 -MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0  
-MAXLEN=2000000000 -USER=US09776865 @CGN\_1\_1065 @runat\_08072005\_175614\_23755  
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Database :

Published Applications NA.\*  
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3: /cgn2\_6/ptodata/2/pubpna/US06\_NEW\_PUB.seq.\*  
4: /cgn2\_6/ptodata/2/pubpna/US06\_PUBCOMB.seq.\*  
5: /cgn2\_6/ptodata/2/pubpna/US07\_NEW\_PUB.seq.\*  
6: /cgn2\_6/ptodata/2/pubpna/PCTUS\_PUBCOMB.seq.\*  
7: /cgn2\_6/ptodata/2/pubpna/US08\_NEW\_PUB.seq.\*  
8: /cgn2\_6/ptodata/2/pubpna/US08\_PUBCOMB.seq.\*  
9: /cgn2\_6/ptodata/2/pubpna/US09A\_PUBCOMB.seq.\*  
10: /cgn2\_6/ptodata/2/pubpna/US09B\_PUBCOMB.seq.\*  
11: /cgn2\_6/ptodata/2/pubpna/US09C\_PUBCOMB.seq.\*  
12: /cgn2\_6/ptodata/2/pubpna/US09\_NEW\_PUB.seq.\*  
13: /cgn2\_6/ptodata/2/pubpna/US10A\_PUBCOMB.seq.\*  
14: /cgn2\_6/ptodata/2/pubpna/US10B\_PUBCOMB.seq.\*  
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17: /cgn2\_6/ptodata/2/pubpna/US10E\_PUBCOMB.seq.\*  
18: /cgn2\_6/ptodata/2/pubpna/US10F\_PUBCOMB.seq.\*  
19: /cgn2\_6/ptodata/2/pubpna/US10G\_PUBCOMB.seq.\*  
20: /cgn2\_6/ptodata/2/pubpna/US10H\_PUBCOMB.seq.\*  
21: /cgn2\_6/ptodata/2/pubpna/US10I\_PUBCOMB.seq.\*  
22: /cgn2\_6/ptodata/2/pubpna/US10J\_NEW\_PUB.seq.\*  
23: /cgn2\_6/ptodata/2/pubpna/US11A\_PUBCOMB.seq.\*  
24: /cgn2\_6/ptodata/2/pubpna/US11\_NEW\_PUB.seq.\*  
25: /cgn2\_6/ptodata/2/pubpna/US60\_NEW\_PUB.seq.\*  
26: /cgn2\_6/ptodata/2/pubpna/US60\_PUBCOMB.seq.\*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match %	Length	DB	ID	Description
1	495	100.0	2844	9	US-09-776-865-3	Sequence 3, Appli
2	495	100.0	2844	21	US-10-823-506-3	Sequence 9, Appli
3	61	12.3	1485	21	US-10-823-506-9	Sequence 322, App
4	61	12.3	1488	13	US-10-098-841-322	Sequence 946, App
5	61	12.3	1651	17	US-10-264-237-946	Sequence 302, App
6	61	12.3	1872	17	US-10-264-049-302	Sequence 461, App
7	61	12.3	1975	18	US-10-296-115-461	Sequence 461, App
8	61	12.3	1975	18	US-10-296-115-461	Sequence 1, Appli
9	61	12.3	2602	21	US-10-823-506-1	Sequence 12482, A
10	61	12.3	2626	14	US-10-198-846-12482	Sequence 1, Appli
11	61	12.3	2930	9	US-09-776-865-1	Sequence 7, Appli
12	61	12.3	2930	21	US-10-823-506-7	Sequence 587, App
13	61	12.3	3292	21	US-10-887-553A-858	Sequence 13097, A
14	61	12.3	3329	19	US-10-755-889-587	Sequence 660, App
15	61	12.3	3362	10	US-09-814-353-19097	Sequence 602, App
16	48	9.7	1229	18	US-10-641-643-660	Sequence 11, Appli
17	33	6.7	217	17	US-10-305-720-602	Sequence 1320, Ap
18	30	6.1	1485	21	US-10-823-506-11	Sequence 1320, Ap
19	29	5.9	196	9	US-09-878-178-1320	Sequence 1320, Ap
20	29	5.9	196	13	US-10-046-935-1320	Sequence 1320, Ap
21	29	5.9	196	14	US-10-146-502-1320	Sequence 1320, Ap
22	29	5.9	494	10	US-09-814-353-12829	Sequence 46, Appli
23	29	5.9	498	10	US-09-814-353-46	Sequence 6444, Ap
24	29	5.9	498	10	US-09-814-353-6444	Sequence 9093, Ap
25	29	5.9	516	14	US-10-198-846-9093	Sequence 1228, Ap
26	18	3.6	573	9	US-09-728-446-1228	Sequence 14261, A
27	18	3.6	755	16	US-10-198-846-4797	Sequence 556, App
28	12	2.4	376	14	US-10-029-386-14261	Sequence 3453, Ap
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33	12	2.4	237326	15	US-10-301-844-2	Sequence 13, Appli
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C 126	8	1.6	594	20	US-10-363-345A-25860	Sequence 25860, A	C 199	8	1.6	911	13	US-10-027-632-120893	Sequence 120893, A
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C 131	8	1.6	612	18	US-10-425-114-19884	Sequence 19884, A	C 204	8	1.6	1066	18	US-10-425-114-7719	Sequence 7719, Ap
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#### SUMMARIES

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55	8	1.6	456	4	US-09-513-999C-11178	Sequence 11178, A
56	8	1.6	456	4	US-09-270-767-4340	Sequence 4340, Ap
57	8	1.6	456	4	US-09-270-767-19622	Sequence 19622, A
58	8	1.6	456	4	US-09-513-999C-11179	Sequence 11179, A
59	8	1.6	513	4	US-09-513-999C-11181	Sequence 11181, Ap
60	8	1.6	516	4	US-09-902-540-8502	Sequence 8502, Ap
61	8	1.6	524	4	US-09-270-767-1440	Sequence 1440, Ap
62	8	1.6	553	4	US-09-270-767-16722	Sequence 16722, A
63	8	1.6	553	4	US-09-513-999C-11174	Sequence 11174, A
64	8	1.6	564	4	US-09-270-767-14049	Sequence 14049, A
65	8	1.6	579	4	US-09-270-767-13786	Sequence 13786, A
66	8	1.6	601	4	US-09-949-016-32335	Sequence 32335, A
67	8	1.6	601	4	US-09-949-016-32336	Sequence 32336, A
68	8	1.6	601	4	US-09-949-016-40335	Sequence 40335, A
69	8	1.6	601	4	US-09-949-016-41432	Sequence 41432, A
70	8	1.6	601	4	US-09-949-016-41433	Sequence 41433, A
71	8	1.6	601	4	US-09-949-016-41437	Sequence 41437, A
72	8	1.6	601	4	US-09-949-016-55349	Sequence 55349, A
73	8	1.6	601	4	US-09-949-016-55350	Sequence 55350, A
74	8	1.6	601	4	US-09-949-016-55557	Sequence 55557, A
75	8	1.6	601	4	US-09-949-016-55558	Sequence 55558, A
76	8	1.6	601	4	US-09-949-016-92662	Sequence 92662, A
77	8	1.6	601	4	US-09-949-016-155122	Sequence 155122, A
78	8	1.6	601	4	US-09-949-016-196871	Sequence 196871, A
79	8	1.6	636	4	US-09-513-999C-11172	Sequence 11172, A
80	8	1.6	636	4	US-09-328-111-270	Sequence 270, App
81	8	1.6	689	4	US-09-513-999C-11175	Sequence 11175, A
82	8	1.6	705	4	US-09-252-991A-11849	Sequence 11849, A
83	8	1.6	801	4	US-09-328-352-2064	Sequence 2064, Ap
84	8	1.6	887	4	US-09-730-212C-6	Sequence 6, Appli
85	8	1.6	887	4		

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88	1.6	1104	4	US-09-328-352-2000	Sequence 2000, A	c 160	8	1.6	151261	4	US-09-949-016-13242	Sequence 13242, A
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c 91	1.6	1263	4	US-09-252-991A-13658	Sequence 13658, A	c 164	8	1.6	275110	4	US-09-949-016-12706	Sequence 12706, A
c 92	1.6	1335	4	US-09-270-767-13448	Sequence 13448, A	c 165	8	1.6	275110	4	US-09-949-016-16070	Sequence 16070, A
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95	1.6	1384	2	US-07-607-538C-1	Sequence 1, Appli	c 168	8	1.6	1664976	4	US-09-692-5270-1	Sequence 1, Appli
96	1.6	1384	2	US-08-162-402B-1	Sequence 1, Appli	c 169	7	1.4	33	1	US-08-350-850-8	Sequence 8, Appli
97	1.6	1384	4	US-09-364-185-1	Sequence 1, Appli	c 170	7	1.4	33	1	US-08-435-634-8	Sequence 8, Appli
98	1.6	1419	4	US-09-902-540-5186	Sequence 5186, App	c 171	7	1.4	35	3	US-09-621-625A-10	Sequence 10, Appl
c 99	1.6	1536	4	US-09-252-991A-11652	Sequence 11652, A	c 172	7	1.4	36	3	US-08-235-636C-27	Sequence 27, Appl
c 100	1.6	1761	4	US-09-252-991A-11704	Sequence 11704, A	c 173	7	1.4	67	3	US-09-242-690A-56	Sequence 56, Appl
101	1.6	1811	4	US-09-740-041-1	Sequence 1, Appli	c 174	7	1.4	67	4	US-09-908-855-56	Sequence 56, Appl
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103	1.6	2052	3	US-09-134-001C-2739	Sequence 2739, App	c 176	7	1.4	137	4	US-09-313-294A-6414	Sequence 6414, App
104	1.6	2178	4	US-09-270-767-14275	Sequence 14275, A	c 177	7	1.4	148	4	US-09-270-767-29675	Sequence 29675, A
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108	1.6	2607	4	US-09-915-181A-1	Sequence 1, Appli	c 181	7	1.4	189	4	US-09-107-532A-2866	Sequence 2866, App
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c 110	1.6	2703	4	US-09-248-786A-4178	Sequence 4178, App	c 183	7	1.4	195	1	US-08-471-770-37	Sequence 37, Appl
111	1.6	2716	1	US-08-647-484-1	Sequence 1, Appli	c 184	7	1.4	195	2	US-08-468-059-37	Sequence 37, Appl
112	1.6	2716	1	US-08-647-484-3	Sequence 3, Appli	c 185	7	1.4	195	2	US-09-109-916-37	Sequence 37, Appl
113	1.6	2716	1	US-08-647-481-1	Sequence 1, Appli	c 186	7	1.4	195	3	US-09-109-916-38	Sequence 38, Appl
114	1.6	2716	1	US-08-647-481-3	Sequence 3, Appli	c 187	7	1.4	195	4	US-09-886-156-37	Sequence 37, Appl
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116	1.6	2716	1	US-08-430-033A-3	Sequence 3, Appli	c 189	7	1.4	195	4	US-09-886-149-37	Sequence 37, Appl
117	1.6	2716	5	PCT-US96-05792-1	Sequence 1, Appli	c 190	7	1.4	195	4	US-09-886-149-38	Sequence 38, Appl
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c 119	1.6	2785	4	US-09-949-016-2651	Sequence 2651, App	c 192	7	1.4	195	4	US-09-886-150-38	Sequence 38, Appl
c 120	1.6	2795	4	US-09-949-016-1135	Sequence 1135, App	c 193	7	1.4	195	4	US-09-886-159-37	Sequence 37, Appl
c 121	1.6	2831	2	US-08-906-713-1	Sequence 1, Appli	c 194	7	1.4	195	4	US-09-886-159-38	Sequence 38, Appl
c 122	1.6	3051	4	US-09-270-767-12928	Sequence 12928, A	c 195	7	1.4	195	4	US-10-326-090-37	Sequence 37, Appl
c 123	1.6	3211	4	US-09-710-279-4211	Sequence 4211, App	c 196	7	1.4	195	4	US-10-326-090-38	Sequence 38, Appl
c 124	1.6	3254	4	US-09-710-279-4202	Sequence 4202, App	c 197	7	1.4	208	4	US-09-621-976-8884	Sequence 8884, App
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c 132	1.6	11854	4	US-09-902-540-1037	Sequence 1037, App	c 205	7	1.4	216	4	US-09-759-143-406	Sequence 406, App
c 133	1.6	12787	4	US-09-949-016-16359	Sequence 16359, A	c 206	7	1.4	216	4	US-09-651-236-406	Sequence 406, App
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c 138	1.6	20444	4	US-09-949-016-15750	Sequence 15750, A	c 211	7	1.4	253	4	US-09-549-848B-20	Sequence 20, Appl
c 139	1.6	20966	4	US-09-776-976-7	Sequence 7, Appli	c 212	7	1.4	255	4	US-09-513-999C-10299	Sequence 10299, A
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c 141	1.6	20966	4	US-09-568-852B-1	Sequence 1, Appli	c 214	7	1.4	266	4	US-09-050-516-24	Sequence 24, Appl
c 142	1.6	22301	4	US-09-949-016-12924	Sequence 12924, A	c 215	7	1.4	266	4	US-10-278-547-24	Sequence 24, Appl
c 143	1.6	24791	4	US-09-902-540-1211	Sequence 1211, App	c 216	7	1.4	271	4	US-09-513-999C-3662	Sequence 3662, App
c 144	1.6	27380	4	US-09-949-016-12877	Sequence 12877, A	c 217	7	1.4	276	4	US-09-543-681A-3946	Sequence 3946, App
c 145	1.6	27383	4	US-09-949-016-14393	Sequence 14393, A	c 218	7	1.4	282	4	US-09-248-796A-8739	Sequence 8739, App
c 146	1.6	28257	4	US-09-949-016-13076	Sequence 13076, A	c 219	7	1.4	290	4	US-09-313-294A-4693	Sequence 4693, App
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c 148	1.6	32573	4	US-09-949-016-13359	Sequence 13359, A	c 221	7	1.4	291	4	US-09-252-991A-42	Sequence 42, Appl
c 149	1.6	33885	4	US-09-949-016-15081	Sequence 15081, A	c 222	7	1.4	292	4	US-09-313-294A-6401	Sequence 6401, App
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c 151	1.6	47799	4	US-09-949-016-13363	Sequence 13363, A	c 224	7	1.4	297	4	US-09-248-796A-10106	Sequence 10106, A
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c 153	1.6	81819	4	US-09-949-016-16661	Sequence 16661, A	c 226	7	1.4	315	4	US-09-583-110-442	Sequence 442, App
c 154	1.6	81819	4	US-09-949-016-16662	Sequence 16662, A	c 227	7	1.4	318	4	US-09-513-999C-20883	Sequence 20883, A
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